Thomas Binz
Project Manager

May 23, 2018

Mr. Kevin Turner
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 5
413 North Division Street
Carterville, Illinois 62918

Subject: **Removal Report, Revision 1**
Pillsbury Mills Site
Springfield, Sangamon County, Illinois
EPA Contract No. EP-S5-13-01
EPA TDD No. S05-0001-1701-003
Document Tracking No. 2185A

Dear Mr. Turner:

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting a removal report for the Pillsbury Mills Site in Springfield, Sangamon County, Illinois. The report summarizes the field activities related to the asbestos removal conducted from February through September 2017.

If you have any questions regarding this report, please call me at (314) 550-4208

Respectfully,

Thomas G. Binz
Tetra Tech START IV, Region 5 Project Manager

Enclosure

cc: Kevin Scott, Region 5 START Program Manager
TDD File

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REMOVAL REPORT
PILLSBURY MILLS SITE
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
REVISION 1

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Emergency Response Branch
Region 5
413 North Division Street
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Submitted by

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1.0 INTRODUCTION

Under Superfund Technical Assessment and Response Team (START) Contract EP-S5-13-01, Technical Direction Document (TDD) No. S05-0001-1701-003, the U.S. Environmental Protection Agency (EPA) tasked Tetra Tech, Inc. (Tetra Tech) START to assist EPA with a removal action at the Pillsbury Mills site located in Springfield, Sangamon County, Illinois. Specifically, EPA tasked Tetra Tech START to perform the following activities at the Pillsbury Mills site:

- Develop and implement an Air Monitoring Plan and Emergency Contingency Plan
- Conduct air monitoring, soil screening, and sample collection
- Perform part-time general oversight, which includes written and photographic documentation of site activities
- Develop a report that summarizes activities completed

This report summarizes the activities completed as part of the removal action. Specifically, the report includes the following sections:

- Site background
- Removal, transportation, and disposal of asbestos-containing waste material (ACWM). Asbestos-related activities include:
    - Loading and disposing of pre-existing asbestos-containing materials (ACM) present in construction demolition debris created by others
    - Bulk removal and disposal of asbestos-containing insulation materials
    - Inaccessible ACM pipe-wrap insulation remaining due to structural safety concerns inside the "C" Mill Building
- Air Monitoring Activities
    - Initial dust monitoring
    - Perimeter air monitoring for total particulates during asbestos removal activities
    - Perimeter air sampling during asbestos removal activities
- Identification, bulk consolidation, removal, and disposal of hazardous waste materials
- Conclusions

In addition, this report contains five appendices. Appendix A provides figures, including a site location map, site layout map, building series layout, Pillsbury Mills site after partial demolition map, and air sampling stations location map. Appendix B provides tables summarizing the transportation and disposal of ACWM and hazardous waste materials, as well as air monitoring and air sampling laboratory data collected during the removal action. Appendix C provides the field notes recorded by START during site activities. Appendix D provides the photographic documentation log of site conditions during the removal action. Appendix E provides information on environmentally preferred practices performed as part of this removal action and other work related to this TDD.

2.0 SITE BACKGROUND

The site is a former grain/flour processing plant. The site was first developed in 1929. Throughout the 1930s, additional buildings and other additions were added leading to the current site footprint. Portions of warehouse #9, warehouse #7, the bakery mix building, and the boiler room have been demolished. Most of the main buildings remain standing and include various pieces of equipment, elevators, and internal debris. Pipe runs and associate asbestos wrap was found throughout the remaining structures.

In 2014, the owners of the Pillsbury Mills site contracted to begin scrap metal recovery and initiated demolition for some of the buildings on the site. As a result of these activities, the site was in disarray and, over a period of time, damaged asbestos-containing building materials were scattered about and routinely disturbed by wind, weather, and on-site contractor activity. On several occasions in August and September 2015, the Illinois Environmental Protection Agency (Illinois EPA) conducted inspections at the site and collected samples of asbestos-impacted building materials. The outcome of the scrapping and partial demolition activities left a large amount of loose, friable asbestos throughout the buildings, along with asbestos-containing rubble and debris scattered upon the site and exposed to the elements.

During the 2015 inspections, Illinois EPA documented that demolition contractors began demolishing portions of the buildings, which included salvage operations for scrap metal. Because of the uncontrolled release of asbestos to the environment, Illinois EPA and the State Attorney General's Office secured a court injunction preventing any further site work by the current owners. Illinois EPA photographed site conditions and conducted asbestos sampling, thereby documenting ACM present both inside and outside many buildings. In a letter dated March 30, 2016, Illinois EPA referred this site to EPA for a removal assessment and possible removal action.

2.1 SITE LOCATION

The Pillsbury Mills site is located on 1525 East Phillips Street at the intersection of East Phillips and North 15th Streets in Springfield, Sangamon County, Illinois, 62702. Site coordinates are Latitude 39° 48' 43.21" North and Longitude -89° 38' 01.50" West. The site is 18.82 acres in size and is located within a mainly residential area in the northeast central portion of Springfield, Illinois (see Figure 1 in Appendix A).

The site is located in a downtown mixed-use area (light industrial, commercial, and residential) and is adjacent to Union Pacific rail lines. To the south and west are residential areas and to the east is

railroad property. The capital building of the State of Illinois is located approximately 1 mile southwest of the site and Interstate 55 is approximately 1.5 miles east of the site. Over 11,000 people live within 1 mile of the site and a public school is also located nearby.

The nearest residences are located approximately 100 feet from the main entrance.

2.2 SITE DESCRIPTION

The site is a former Pillsbury grain mill consisting of several warehouses, office buildings, grain-mixing operation buildings, grain storage silos, and vehicle parking areas (see Figure 2 in Appendix A). The site complex is large and originally consisted of 26 buildings (see Figure 3 in Appendix A); however, the site was vacant for approximately 10 years prior to scrap metal recovery and demolition activities. Figure 4 in Appendix A shows the current condition of the site after the 2015 demolition of several buildings.

Most of the site contains abandoned buildings covering the surface area. Buildings include grain storage elevators; the front office; and the facility's main industrial complex, with mill buildings, manufacturing areas, warehouses, and railroad spurs previously used to deliver un-milled grain. The buildings are predominately contiguous throughout the first and second floors and have multiple, interconnecting basements joined on the south and north by grain and flour bins. All but one of the three building basements were flooded prior to the start of asbestos removal work. About 850,000 square feet of processing and warehouse space was still present in the complex. The site is fenced along the west and south sides, and bounded by Illinois & Midland (I&M)/Tazewell & Peoria (T&P) Railroad spurs along the east.

2.3 RECENT SITE ENFORCEMENT ACTIONS

According to Illinois EPA, in 2014, the site owners contracted to begin scrapping activities and demolition of some of the buildings. The scrapping and partial demolition went forward with no (or inadequate) abatement of asbestos. Piles of bagged and un-bagged asbestos, damaged asbestos hanging from pipe runs, and asbestos debris were observed throughout the site. Some asbestos was present on the surface and could potentially become airborne.

In the summer of 2015, scrapping and demolition activity continued, creating additional ACWM in rubble and debris piles. As a result of these activities, the site was in disarray; asbestos-containing debris materials were disturbed, scattered, left unprotected, and subjected to further deterioration from the elements.

On August 19 and September 1, 2015, Illinois EPA conducted site inspections and collected samples of ACM. Most notably, these samples came from debris piles strewn about inside and outside the buildings (Warehouse #6) and from pipe insulation found on the floor in the buildings (Warehouse #4, Grocery Mix building, and Warehouse #6) (see Figure 3 in Appendix A). Illinois EPA laboratory sample results concluded that ACM was present inside and outside the buildings, and co-mingled with debris piles. Asbestos-containing debris piles were observed by Illinois EPA personnel near the Phillips Street main entrance gate during the August 7, 2015 inspection.

The August 19, 2015, sample analyses showed 15 of 17 bulk sample locations contained between 2 percent and 70 percent of chrysotile; and between 5 percent and 40 percent of amosite asbestos, including friable asbestos. The September 1, 2015 sample result showed that asbestos debris was found outside the buildings on the ground near the main entrance to the facility (Grocery Mix building). As a result of these documented conditions, Illinois EPA and the Illinois State Attorney General's Office procured an injunction against the site owner and other related individuals prohibiting any further site work.

On May 17, 2016, EPA Region 5, On-Scene Coordinator (OSC), Kevin Turner, performed an assessment of suspected ACWM at the site in accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Asbestos, 40 CFR Part 61.141 and 61.145. The OSC documented the presence of friable asbestos, ACWM, and regulated asbestos-containing material (RACM) at the site. As a result of those findings, a fund-financed time-critical response action became necessary to mitigate the threats to public health, welfare, and the environment posed by the presence of uncontrolled asbestos waste located throughout the site.

On June 2, 2016, EPA and Illinois EPA met at the site to evaluate and review the asbestos analytical data. All samples were analyzed using polarized light microscopy (PLM) and were considered positive for asbestos if the sample contained asbestos greater than 1 percent weight by volume.

In August 2016, Illinois EPA collected additional asbestos samples demonstrating that ACM and transite found outside Warehouse #7 and the bakery mix tower building (near the fence) had been released to the environment.

Asbestos was the principal contaminant of concern, making the removal action a nationally significant and precedent-setting removal. Also, paint containers, totes of unknown chemicals, suspected fuel oils and gasoline products, antifreeze, PCB lighting ballasts, mercury switches, and fluorescent bulbs were observed, in addition to many common household hazardous wastes (universal wastes). As a result of

the findings of the assessment, EPA proposed a removal action be conducted in accordance with Section 104(a)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9604(a)(1), and 40 C.F.R. § 300.415 of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) to abate or eliminate the immediate threats posed to public health, welfare, and the environment.

On January 26, 2017, EPA OSC, Kevin Turner; EPA's Emergency and Rapid Response Services (ERRS) contractor, Environmental Restoration LLC (ER, LLC); and Tetra Tech START performed a site walk to confirm the presence of ACWM in debris piles and RACM inside many of the buildings to determine whether these areas were safe to access and to develop a schedule and approach for removal work. The site walk consisted of a conducting a site reconnaissance, identifying ACWM and RACM by visual inspection, estimating the volume of ACWM in debris piles, and photographing and recording documentation of site features. Tetra Tech START also conducted a pre-removal site walk and radiation survey, utilizing a Ludlum Model 192 survey meter to ensure worker safety. A measurement of 12 to 52 micro-roentgens per hour (µR/hr) was established as an on-site background radiation level. No measurements taken from the debris piles or from inside site buildings exceeded the established background level. Due to the scattered and uncontrolled conditions of ACWM observed during previous Illinois EPA inspections, all site personnel were required to wear Level C personal protection equipment (PPE).

3.0 REMOVAL, TRANSPORTATION, AND DISPOSAL OF ASBESTOS-CONTAINING WASTE MATERIALS

From February 6 through September 21, 2017, EPA conducted removal activities involving consolidating, loading, removing, and disposing of ACWM from the site. During the removal action, Tetra Tech START monitored work activities for dust emissions and surface water runoff from wetting and dust suppression. Removal activities were performed by ER, LLC.

During removal activities, EPA maintained site security using the existing 10-foot high chain-link fence. EPA and Tetra Tech START performed daily perimeter inspections of the fence. This fence, along with another interior fence, had been constructed for site ingress/egress control and decontamination control. Additionally, EPA elected to retain the services of a third-party security provider to remain on site during evening hours and weekends for the project duration.

Because of the complexity of many buildings and the large site size, EPA contractors were required to pump extensive amounts of accumulated rain water from the basement of the Series "B" building to safely access and remove ACWM. Because the amount of accumulated water increased during seasonal rain events, it was decided to delay water pumping until the dry summer season in mid-June 2017. The Series "B" building required continuous pumping of accumulated rainwater for several weeks before EPA contractors were able to gain access. Pumping of the basement of Series "C" head house building was also required before ACWM removal could start. All pumped water was moved into the basement of Series "A" Bakery Tower Mix building.

The following sections describe the approach used for loading and disposing of asbestos-impacted construction debris and the bulk removal of asbestos-containing insulation materials. EPA also tasked START to document areas of inaccessible ACM as part of the 2017 removal action at the site (Table 3 Appendix B).

3.1 LOADING AND DISPOSAL OF PRE-EXISTING ASBESTOS-IMPACTED DEMOLITION DEBRIS

Extensive amounts of asbestos-impacted debris generated and left behind by others required special handling by EPA contractors (see photographs 2 and 3 in Appendix D). ERRS personnel used two fire hoses to provide dust suppression and wetting during consolidation and loading of construction and demolition debris. ERRS personnel also used two excavators, and a skid steer to manage the debris, separated the various scrap metal items found in debris piles, and loaded the ACM into lined dump trucks for disposal. Scrap metal was removed from both inside and outside of the buildings, decontaminated

with water, segregated from the ACM debris piles, and set off to the side within the site exclusion zone. EPA did not conduct scrap metal recovery operations. Asbestos-containing demolition debris spread across the ground and on concrete surfaces required ERRS to routinely wet the debris during handling and loading operations. Inside many buildings, existing and loose ACM was present on the ground. Asbestos-containing insulation found in garbage bags was wetted, double-bagged, and loaded in plastic-lined dump trailers. Before asbestos-containing debris was loaded, ERRS inspected the truck beds and installed a polyethylene liner measuring 0.006 inch in thickness (6-mil). Once installed, ERRS inspected the liner to verify that no tears were present. Using a fine mist of water, ERRS loaded asbestos-containing debris directly into plastic lined dump trailers using a tracked excavator with a thumb attachment. ERRS provided dust suppression at all times during loading operations using a hose and nozzle connected to a water hydrant. After trucks were loaded, ERRS workers sealed the top of the 6-mil burrito-style liner with spray adhesive at the truck sealing station. Asbestos warning labels were attached to the outside of the liner. ERRS inspected the liner before the truck departed to ensure it was properly sealed and undamaged during loading. Any small rips or tears were sealed with duct tape before the truck left the site. Asbestos signs and "Class 9 - Other Regulated Material (ORM) 2212" placards were fastened to the exterior cargo area of each truck prior to departure from the site. Loading and disposal operations of bulk asbestos-impacted construction demolition debris were conducted from February 15 through March 10, 2017.

ACM was transported for disposal to a State of Illinois asbestos-approved landfill, the Waste Management Inc., Five Oaks Landfill in Taylorville, Illinois. A total of 100 truckloads weighing 2195.90 tons, mostly in the form of brick or concrete, were collected for ACWM disposal (see Table 1 in Appendix B).

3.2 BULK REMOVAL OF ASBESTOS-CONTAINING INSULATION

From March 22, 2017, through September 14, 2017, glove bag removal techniques were primarily used for bulk removal of asbestos-containing insulation (except in areas that required containment for removal of asbestos-wrapped storage tanks used for facility steam-heat or edible fats used to shorten baked goods). Due to the size of the site, the number of buildings inspected, and the vast amount of asbestos pipe-wrap present, the glove bag approach was the primary asbestos removal technique employed. A large man-lift along with rented scaffolding was used to facilitate removal work and provide personnel on site with access to tall buildings, trundle equipment, and supplies. On March 21, 2017, ERRS assembled and affixed a debris chute onto the fourth floor of the Series "A" Bakery Mix Tower building, and on March 22, ERRS initiated asbestos removal on the eighth floor of the

building.ACWM within the glove-bag was double bagged before removal and was loaded into 40 cubic-yard roll-off-boxes. ERRS installed a 6-mil polyethylene liner and inspected the liner to verify that no tears were present. The roll-off-boxes were strategically placed next to a debris chute to facilitate loading of the double-bagged ACWM directly into the roll-off-box shipping container. Otherwise, double-bagged ACWM was loaded using a skid steer when the debris chute could not be used. ERRS provided dust suppression during loading operations, using a hose and nozzle connected to a water hydrant.

After the roll-off-boxes were loaded, ERRS workers sealed the top of the 6-mil burrito-style liner with spray adhesive at the truck sealing station. Asbestos warning labels were attached to the outside of the roll-off-boxes. ERRS inspected the liner before the truck departed to ensure it was properly sealed and undamaged during loading. Asbestos signs and Class 9 ORM 2212 placards were fastened to the exterior cargo area of each truck prior to departure from the site.

Bulk asbestos removal work was performed at the following locations:

- Series "A" Bakery Tower Mix Building on floors two, three, four, five, six, seven, and eight, including the basement, main floor of Bakery Mix, and the remnant sections Warehouses #7, #8, and #9.

- Series "B" Grocery Mix Building on floors two, three, four, and five including remnant sections on the main floor and basements of Warehouses #3, #4, #5 and #6. C Mill Building floors two and three and partial removal of floors three, four, five, six, seven, eight, and nine including the main floor Warehouse #6 and first and second floors of the Locker Rooms. The Forklift Shop and Truck Dump outbuildings were surveyed for asbestos but only contained articles of universal and other suspected hazardous waste containers.

- Series "C" A & B Mill Building on floors two, three, four, five, six, seven, and eight including the main floors and basements of Warehouses #1 and #2. Small-scale asbestos removal actions were completed inside the upper sections of Head House, Grain Storage, and Annex silos, including the basement of Bulk Storage Turbo Building.

A total of 29 roll-off-boxes containing 1,160 cubic-yards of bulk ACWM, mostly in the form of asbestos-containing pipe-wrap, were shipped for ACWM disposal (Table 2 in Appendix B). The bulk ACWM was transported for disposal to a State of Illinois asbestos-approved landfill at the Republic Services, Sangamon Valley Landfill, in Springfield, Illinois.

3.3 INACCESSIBLE ACM PIPE-WRAP INSULATION

Due to structural safety concerns created from many years of water damage, the fourth, fifth, sixth, seventh, eighth, and ninth floors of the Series “B” “C” Mill Building, could not be safely accessed by EPA contractors. The wood floors spanning across the concrete structure had extensive water damaged from leaking roofs and were deemed too large of a safety risk to attempt access by ERRS. EPA tasked Tetra Tech START to photo-document and estimate the amount of ACM that could not be removed. The OSC tasked Tetra Tech START to inventory the total amount of inaccessible asbestos-containing pipe-wrap that remained (Table 3 in
Appendix B).

3.4 FINAL SITE INSPECTION FOR ASBESTOS

EPA, ERRS, and Illinois EPA conducted a final site walk on September 21, 2017. Care was taken to secure the perimeter fence and affix warning signs to deter unauthorized entry. The removal action was completed other than the accumulated amounts of hazardous waste materials securely stored temporarily inside Dock #107 and site personnel demobilized on September 22, 2017. At this time the Illinois EPA took back site control. All subsequent site visits conducted were to complete final disposition arrangements for hazardous materials as discussed further in Section 5.3.

4.0 AIR MONITORING

The following sections describe initial dust monitoring, perimeter dust monitoring, and asbestos air sampling performed by Tetra Tech START as part of the removal action at the site.

4.1 INITIAL DUST MONITORING

During site set-up and prior to ACM removal work, Tetra Tech START conducted air monitoring for total particulates at two locations around the perimeter of the site exclusion zone to develop baseline dust level data prior to the start of asbestos removal activities. Two Thermo Scientific MIE personal DataRam (pDR) pDR-1500 dust meters were used to collect particulate readings around the exclusion zone during removal activities. The location of the pDR was based on the daily prevailing winds, and the pDR was mounted in the breathing zone, in locations both upwind and downwind of the site command post. Tetra Tech START personnel initially conducted air monitoring for total particulates during site set-up activities on February 6 and 7, 2017. Baseline air monitoring was conducted on two dates during this period without an exceedance of the action level (AL) of 2,500 µg/m^3. The highest time-weighted average (TWA) concentration for total particulates was 193 µg/m^3 on February 6, 2017, due to the disturbance of particulates by truck traffic within the safety support zone.

The pDR monitored total particulate concentrations and provided TWA particulate concentrations during daytime site mobilization operations. A total particulate AL of 2,500 micrograms per cubic meter (µg/m^3) was established. An alarm on the unit was programmed to alert EPA and Tetra Tech START of exceedances of the 2,500 µg/m^3 AL. On February 7, 2017, pDR particulate monitoring was replaced by DustTrakTM DRX, aerosol monitors, Model 8533, using Viper wireless communication to a host computer. Section 4.2.1 describes the real-time air monitoring activities using DustTrak instrumentation.

Tetra Tech START also monitored and recorded weather conditions, conducted real-time air monitoring for particulate matter using the Viper communication system, and collected occasional perimeter air samples for laboratory analysis via phase contrast microscopy (PCM). The PCM results were used to evaluate whether airborne fiber concentrations were migrating from the site during removal activities. Section 4.2.2 describes the asbestos air sampling activities.

4.2 PERIMETER AIR SAMPLING DURING ASBESTOS REMOVAL ACTIVITIES

Tetra Tech START conducted real-time perimeter air monitoring for particulates during the ACWM removal activities using DustTrakTM DRX, aerosol monitor Model 8533, with the EPA Viper wireless communication system connected to a host computer along with co-located Gillian AirCon2 high-volume air samplers (Tetra Tech 2017).

In addition to real-time particulate monitoring, Tetra Tech START documented ERRS removal work, including dust suppression measures, to ensure ERRS complied with the no visible emissions standard provided by the NESHAP for Asbestos, 40 CFR Part 61.150 (a).

Asbestos air sampling was also conducted at designated locations to identify airborne fiber concentrations for receptors on and off site. Perimeter air monitoring was performed 3 days per week (when START was on site) at the locations (shown on Figure 5 in Appendix A).

4.2.1 Real-Time Air Monitoring using DustTraks

Real-time air monitoring was conducted in and around the perimeter of the exclusion zone by START personnel throughout removal activities. Real-time air monitoring was described in detail in the Tetra Tech air monitoring plan (Tetra Tech 2017). The purpose of the monitoring was to measure particulate levels in and around the site and fugitive particulates leaving the exclusion zone. Real-time air monitoring was conducted 3 days per week during removal action activities. Data was captured digitally via the instrument; recorded to the EPA Emergency Response Team (ERT) Viper 900 MHz wireless communication system throughout the monitoring period; and reviewed throughout the day for occasional spikes in total particulates. DustTraks were deployed to measure particulate levels and were configured to analyze for total particulates. All real-time air monitoring equipment was calibrated or checked for alarms on a daily basis. Equipment maintenance was also performed on site as needed.

Real-time air monitoring with DustTraks began with monitors positioned within and near the perimeter of the exclusion zone. As site activities evolved, air monitors were moved based on daily site activities. Primary air monitoring stations were mounted on tripod stands at the following four locations: within the safety support zone, on the southwestern side of the exclusion zone perimeter near the site main entrance, off site on the western side at a former employee parking lot near a residential home, and off of 15th Street on the northwestern side of the exclusion zone perimeter. A map showing common air monitoring locations is provided as Figure 5 in Appendix A. All air monitoring equipment was

connected via 900 MHz wireless telemetry to a site host computer, which was used to send data to the EPA ERT via EPA's VIPER Survey Controller software. Monitoring data were stored in each instrument's internal memory and also on a secure server managed by ERT.

During site activities, it was observed that DustTrak data transmitted via the Viper 900 MHz telemetry system introduced erroneous data into total particulate matter readings. This data took the form of anomalous data spikes that were typically orders of magnitude greater than valid particulate monitoring data, as well as negative readings. Tetra Tech developed a data filtering procedure to identify and replace data that comprise the anomalous spikes (Tetra Tech 2017b). The analysis of all air monitoring data was performed by comparing results for any continuous 15-minute time weighted average greater than or equal to the AL of 2.5 mg/m^3.

On February 17, 22, 24, March 6, and May 4, 2017, anomalous data spikes occurred with the instruments registering total particulates of 507.78, 3009.94, 4.89, 22.65, and 2.83 mg/m^3 respectively. However, the resultant data analysis performed by Tetra Tech START produced actual levels of 0.0137, 0.0522, 0.0269, 0.0162, and 0.0112 mg/m^3 respectively. Ultimately, Tetra Tech START review of the entire DustTrak data package has determined that all analyzed 15-minute TWA results were below the AL as defined the Air Monitoring Plan (Tetra Tech 2017). The total particulate analysis summary results can be found in Table 8 in Appendix B. The data contained in Table 8 represents the maximum 15-minute TWA recorded for each day on which particulate monitoring was conducted.

Air monitoring stations for total particulates were located primarily on the northwestern, western, southwestern and southern sides of the site. Descriptions of the various perimeter air monitoring stations (shown on Figure 5 in Appendix A) are provided below.

- Station 1 – Located at the southern border next to the temporary field office trailers, along the northern edge of the public alleyway north of East Matheny Avenue (permanent air monitoring station location)
- Station 2 – Located outside the southwestern security fence on the west side of the debris cleanup, near the main site entrance gate off of East Phillips Street (permanent air monitoring station location)
- Station 3 – Located on the western side near residential homes in an area that formerly served as an employee parking lot (with nearby alternate location used on occasion as directed by the OSC)
- Station 4 – Located on the northwestern side along 15th Street just outside the western security fence (with nearby alternate used on occasion as directed by the OSC)
- Station 5 – Located near the ERRS-provided decontamination trailer (with nearby alternate used on occasion as directed by the OSC)

4.2.2 Air Sampling During Asbestos Removal Activities

Tetra Tech START conducted air sampling for asbestos fibers during the ACWM removal activities using Gillian AirCon2 high-volume air samplers (Tetra Tech 2017). Air sampling was conducted at designated locations to identify airborne fiber concentrations for receptors on and off site. Air samples were collected at the locations listed below (shown on Figure 5 in Appendix A).

- Station 1 – Located at the southern border next to the temporary field office trailers, along the northern edge of the public alleyway North of East Matheny Avenue (permanent air monitoring station location next to the field office trailers and normally considered downwind due to prevailing winds from the west, except considered downwind when winds were from the south)
- Station 2 – Located outside the southwestern security fence on the west side of the debris cleanup, near the main site entrance gate off of East Phillips Street (permanent air monitoring station location considered to monitor and be protective of homeowners living on East Phillips Street)
- Station 3 – Located on the western side near residential homes in an area that formerly served as an employee parking lot (with nearby alternate location used on occasion as directed by the OSC)
- Station 4 – Located on the northwestern side along 15th Street just outside the western security fence (with nearby alternate used on occasion as directed by the OSC)
- Station 5 – Located near the ERRS-provided decontamination trailer (used on occasion as directed by the OSC)
- Station 6 – Located inside Dock #107 (used on one occasion as directed by the OSC). This station was placed in location was where all site hazardous materials and universal wastes were: (a) hazardous categorization identified [Haz-Cat]; (b) composited together by compatibility, (c) re-containerized if necessary; and (d) temporarily stored until final disposition arrangements)
- Station 7 – Located under the remaining roof section of Warehouse #7 (used on one occasion as directed by the OSC). This station was placed in location was where all site hazardous materials including universal wastes were: (a) identified by hazardous categorization [Haz-Cat]; (b) composited together by compatibility; (c) re-containerized if necessary; and (d) temporarily stored until final disposition arrangements)

Air sampling was conducted 3 days per week during removal activities from February 8 to September 28, 2017. EPA established the site-specific action level of 0.001 fiber per cubic centimeter (f/cc) for industrial areas in accordance with the Office of Solid Waste and Emergency Response (OSWER) Directive #9200.0-68, Framework for Investigating Asbestos-Contaminated Superfund Sites (OSWER 2008). Tetra Tech START collected 110 air samples during ACWM removal activities. The air samples

were submitted under chain of custody, to QuanTEM Laboratories in Oklahoma City, Oklahoma, for PCM analysis in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400 (NIOSH 1994).

Fiber counts for all but nine of the 110 samples analyzed by PCM were below the 0.001 fibers per cubic centimeter (f/cc) action level, with concentrations ranging from 0.00103 f/cc to 0.00307 f/cc.

One sample was tested by transmission electron microscopy (TEM) analysis in accordance with NIOSH Method 7402 (NIOSH 1994b). Asbestos fibers were not detected in this sample, which had a detection limit of <0.000424 f/cc.

Figure 5 in Appendix A shows the asbestos air sampling locations, and Table 4 in Appendix B summarizes the PCM and TEM air sampling results.

Additional air samples were collected by ER, LLC, for background air quality and OSHA worker safety. These samples are not discussed in this report.

5.0 IDENTIFICATION, BULK CONSOLIDATION, REMOVAL AND DISPOSAL OF ALL WASTE CONTAINERS

The following section describes requirements of waste container identification, universal waste, and remaining hazardous wastes requiring commercial disposition at EPA-approved treatment, storage, and disposal facilities.

During asbestos removal, the ERRS foreman assessed the condition of all hazardous waste containers and moved them to an appropriate area until the end of each work day. Any weathered, damaged, or leaking container discovered by the ERRS foreman was placed on plastic sheeting or re-containerized. At a convenient time, ERRS technicians used the skid steer to trundle the containers to a secure area and safely store them within the confines of the secured fenced area. All universal wastes and suspected hazardous materials discovered were sorted, grouped, and safely staged inside Warehouse #7 or inside the locked confines of Dock #107.

On September 7, 2017, from prior arrangements made by the OSC, five compressed gas cylinders belonging to Linde Gas LLC were removed and transported for evacuation and disposal to the Linde Air Company facility located at 1351 West Jefferson Street in Springfield, Illinois.

On September 29, 2017, from prior arrangements made by the OSC, one pallet of non-hazardous, commercial grade laundry bleach belonging to ECOLAB was removed and transported by Tradebe Environmental Services for treatment at their facility located at 4343 Kennedy Avenue in East Chicago, Indiana, and then disposed at the Waste Management Inc., Laraway RDF landfill in Peoria, Illinois.

On October 20, 2017, from prior arrangements made by the OSC, one fire extinguisher containing Halon was picked-up by Getz Fire Equipment Company located at 1615 S.W. Adams Street in Peoria, Illinois, for chemical reuse.

5.1 WASTE IDENTIFICATION

On August 15, 2017, Tetra Tech START initiated hazard characterization (haz-cat) identification of 23 containers staged inside Warehouse #7 which were filled or partially contained unknown chemical contents (Table 9 in Appendix B). During the period of August 15 through September 19, 2017, Tetra Tech START identified materials by container label when the label was intact, or completed haz-cat-identification when the container contents were unknown. Tetra Tech START then emptied, after which ERRS consolidated, bulked, or solidified the contents as appropriate. All damaged, rusted, and RCRA

empty containers were crushed by ERRS using the track-hoe, and then placed into 40 cubic yard roll-off-boxes for co-disposal with the ACM pipe-wrap insulation waste stream.

Due to the food-grade production capabilities of Pillsbury Mills, many containers were plastic, hand-pump operated, spray soap cleaners or consumer packaged lubricating oils. Liquid soap cleaners were utilized by ERRS for boot-wash decontamination. The majority of the easily identified lubricating oil containers were appropriately bulked together. Weathered, rusty metal paint cans were first decanted of liquids with the remaining solids emptied by hand then attended by adding available oil-dry and set-aside to air-dry. Spray paint containers with contents were accumulated for lab-pack disposal with the empties added to the 40 cubic-yard roll-off-boxes. In all, 622 containers, many of which were either small plastic tubes, squeeze bottles, quart-sized plastic, 5-gallon pails, or various other sizes of lubricating oils, were co-mingled into plastic chemical totes.

Any unknown chemical containers were haz-cat identified and co-mingled with like hazard classes into the appropriate containers for safe temporary storage. Various materials ultimately required special handling and disposition as a lab pack (Table 6 in Appendix B).

After ERRS completed competitive bidding, arrangements were made with two different disposal vendors, and disposition shipping arrangements were made to remove all hazardous wastes from the site as described in Sections 5.2 and 5.3.

5.2 UNIVERSAL HAZARDOUS WASTE DISPOSITION ARRANGEMENTS

Universal wastes, including mercury-containing fluorescent lightbulbs, lead acid batteries, and polychlorinated biphenyl (PCB)-containing lighting ballasts were inventoried for off-site disposal. Due to competitive bid requirements, Tetra Tech START created an inventory of all non-hazardous and hazardous wastes for commercial disposition arrangements. On September 22, 2017, the OSC met on site with representatives of Republic Services to sign the required shipping documents and remove from secured storage the universal hazardous waste materials (see Table 5 in Appendix B).

5.3 DISPOSITION ARRANGEMENTS FOR ALL OTHER HAZARDOUS WASTE

On November 1, 2017, the OSC and two ERRS technicians returned to the site in support of the removal of the remaining hazardous waste materials, which had been securely stored within Dock #107. Representatives from Veolia Environmental Services arrived on site to safely package, handle, ship, and transport all remaining wastes. This shipment was comprised of the lab-pack wastes and bulked waste oils (Table 7 of Appendix B). The OSC signed the required waste manifest documents the same day.

6.0 CONCLUSIONS

The scope of work for this removal action consisted of the following: (1) consolidate and remove asbestos-impacted building materials determined to be a threat to human health and the environment; (2) remove, transport, and dispose of all ACM/PACM/ACWM to an EPA-approved disposal facility in accordance with the EPA Off-site Rule (40 CFR.§ 300.440); (3) conduct high-volume asbestos air sampling and real-time air monitoring for total particulates with DustTraks connected to the Viper wireless communications system; and (4) haz-cat identify 23 unknown containers and characterize by hazardous classes all waste container contents in support of ERRS waste disposal actions.

During the period of February 6 through September 21, 2017, EPA conducted asbestos removal activities involving consolidating, loading, removing, and disposing of ACWM from the site. Removal of ACM and ACWM was successful in mitigating threats to public health, welfare, and the environment; however, due to safety concerns, a minor amount of ACM (approximately 200 linear feet) still remains on site inside the Pillsbury Mills "C" Mill Building in the form of pipe wrap upon existing piping. Removal of ACWM and hazardous waste was completed in accordance with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9604(a)(1), to abate or eliminate the immediate threats posed to public health and the environment. Total quantities of waste removed from site included:

- 100 truckloads containing 2,195.63 tons of ACWM debris were transported to the landfill for disposal
- 29 truckloads containing 1,160 cubic yards of ACWM pipe-wrap insulation were transported to the landfill for disposal
- 1 truckload of universal waste materials was transported for off-site reclamation disposal by Republic Services
- 1 truckload of hazardous waste materials was transported for off-site disposal by Veolia Environmental Services

REFERENCES

Bing Maps Hybrid. 2013. 1525 East Phillips Street, Map of Springfield, Illinois.

National Institute for Occupational Safety and Health (NIOSH). 1994a. "Asbestos and Other Figures by PCM" Method 7400. Issue 2. August 15.

National Institute for Occupational Safety and Health (NIOSH). 1994b. "Asbestos by TEM" Method 7402. Issue 2. August 15.

Office of Solid Waste and Emergency Response (OSWER). 2008. Framework for Investigating Asbestos-Contaminated Superfund Sites. Directive #9200.0-68. September.

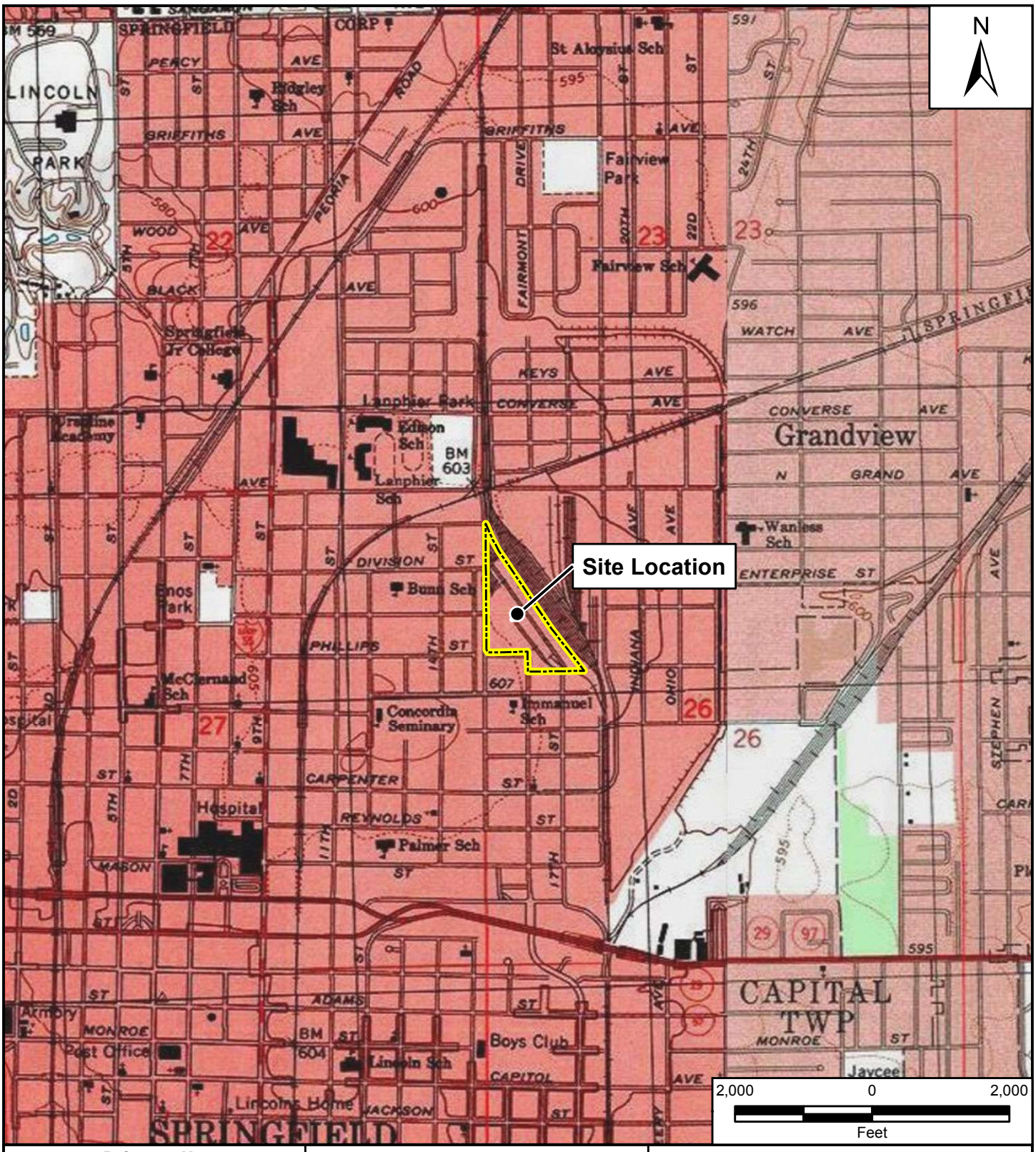
Tetra Tech. 2017a. "Draft Air Monitoring Plan – Pillsbury Mills Site." February 6.

Tetra Tech 2017b. "Technical Memorandum: USS Lead Particulate Matter VIPER Data Filter Development Methodology." March, 10.

U.S. Geological Survey. 1994. 7-5 Minute Topographic Map of Springfield, Illinois, Quadrangle.

APPENDIX A

FIGURES



Reference Map

Legend

Approximate Site Boundary

Source: USGS 7.5-Minute Topographic Quadrangle Map: Springfield, IL 1998

Pillsbury Mills
1525 East Phillips Street
Springfield, Sangamon County, Illinois

Figure 1
Site Location Map

TETRA TECH

Prepared For: EPA

Prepared By: Tetra Tech Inc.

File Path: G:\IG\G90026-START IV\Illinois\Pillsbury Mills Site - RV\mxd\Fig1-SiteLocation.mxd

Date Saved: 2/2/2017

EPA Contract No.: EP-S5-13-01

TDD No.: S05-0001-1701-003

Coordinate System: GCS WGS 1984
Datum: WGS 1984
Units: Degree

Reference Map

Legend

Approximate Site Boundary

Source: Bing Maps Hybrid 2013

Pillsbury Mills
1525 East Phillips Street
Springfield, Sangamon County, Illinois

Figure 2
Site Layout Map

TETRA TECH

Prepared For: EPA	Prepared By: Tetra Tech Inc.

File Path: C:\temp\Pillsbury Mills Site - RV\mxd\Fig2-SiteLayout.mxd

Date Saved: 2/3/2017

EPA Contract No.: EP-S5-13-01

TDD No.: S05-0001-1701-003

Coordinate System: GCS WGS 1984
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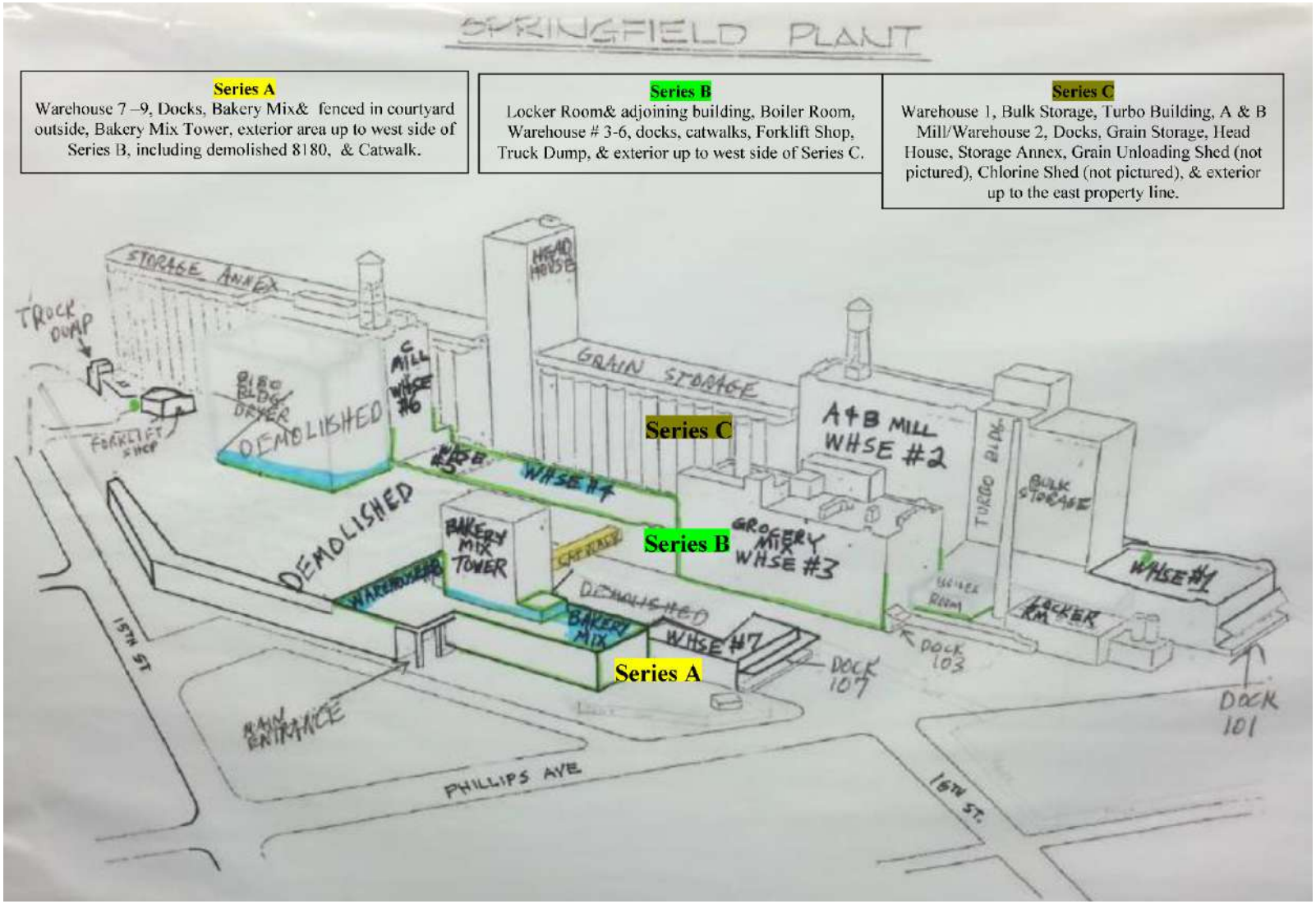
Units: Degree



Reference Map

Pillsbury Mills
1525 East Phillips Street
Springfield, Sangamon County, Illinois

Figure 3
Building Series Layout
Provided By Illinois EPA

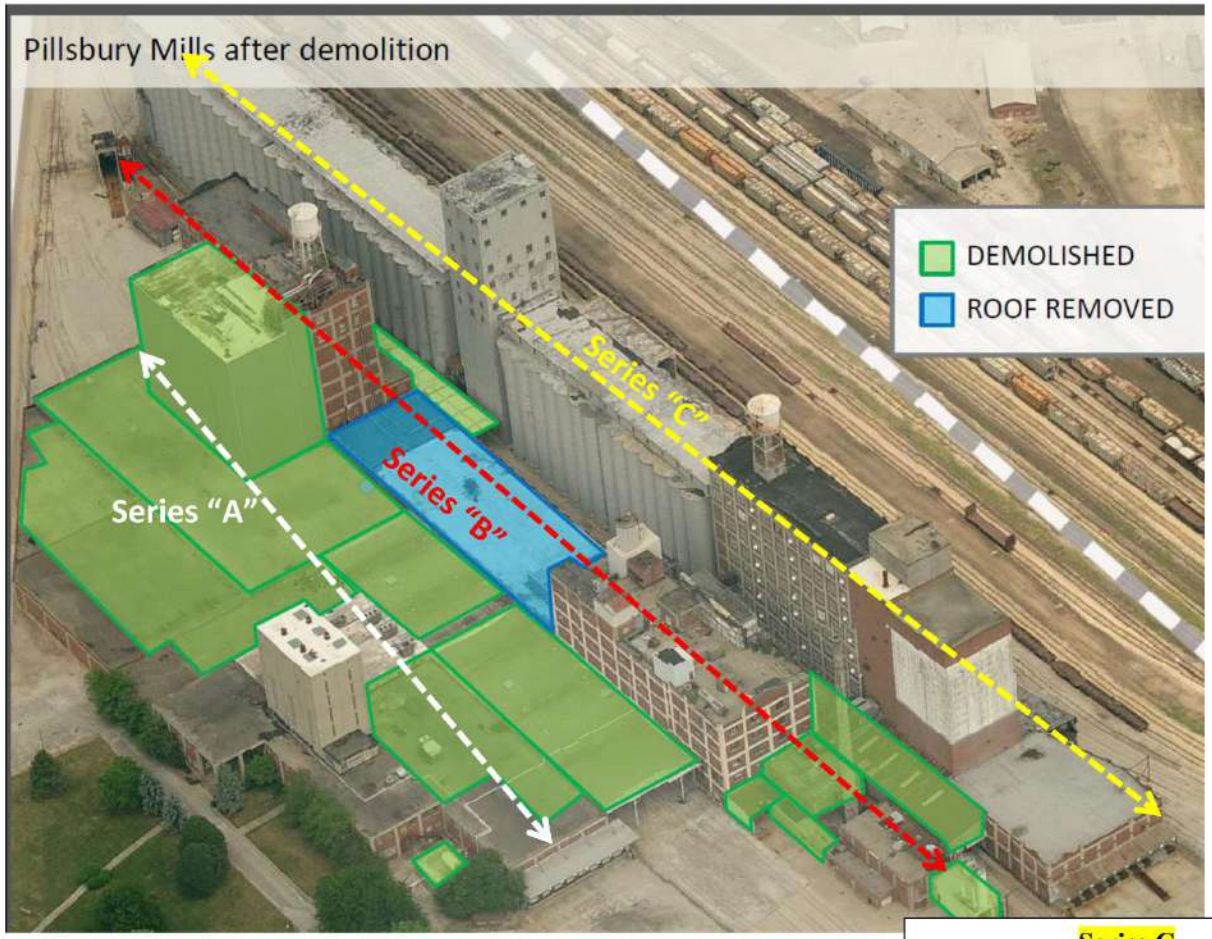
TETRA TECH

Prepared For: EPA	Prepared By: Tetra Tech Inc.

File Path: C:\temp\Pillsbury Mills Site - RV\mxd\Fig3-BuildingSeriesLayout.mxd

Date Saved: 2/3/2017 | EPA Contract No.: EP-S5-13-01 | TDD No.: S05-0001-1701-003

Coordinate System: GCS WGS 1984
Datum: WGS 1984
Units: Degree



Series A
Warehouse 7 –9, Docks, Bakery Mix& fenced in courtyard outside, Bakery Mix Tower, exterior area up to west side of Series B, including demolished 8180 & Catwalk.

Series B
Locker Room& adjoining building, Boiler Room, Warehouse # 3-6, docks, catwalks, Forklift Shop, Truck Dump, & exterior up to west side of Series C.

Series C
Warehouse 1, Bulk Storage, Turbo Building, A & B Mill/Warehouse 2, Docks, Grain Storage, Head House, Storage Annex, Grain Unloading Shed (not pictured), Chlorine Shed (not pictured), & exterior up to the east property line

Reference Map

Pillsbury Mills
1525 East Phillips Street
Springfield, Sangamon County, Illinois

Figure 4
Pillsbury Mills Site After Partial Demolition

TETRA TECH

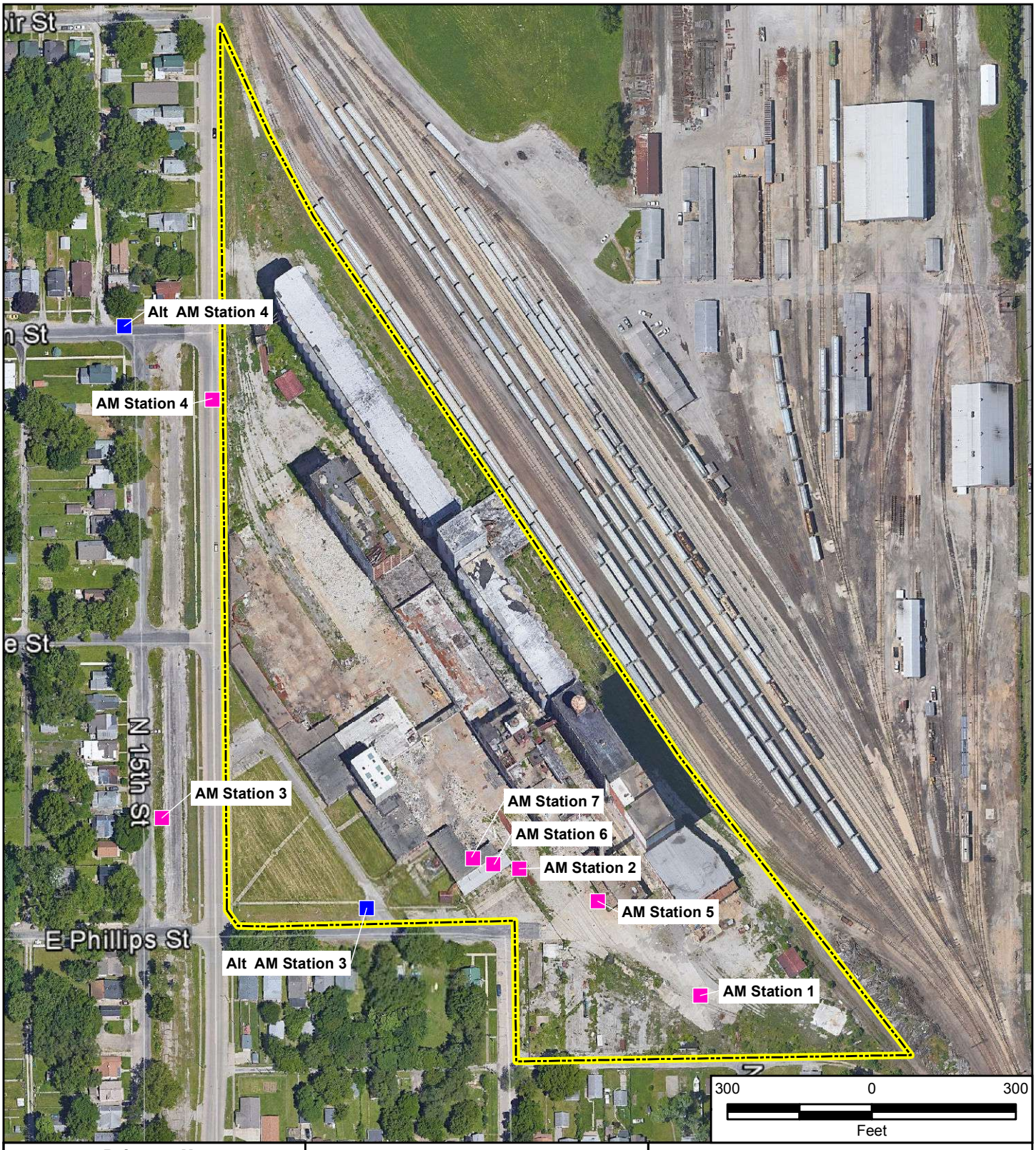
Prepared For: EPA	Prepared By: Tetra Tech Inc.

File Path: G:\G\G9026-START IV\Illinois\Pillsbury Mills Site - RV\mxd\2017-11\Fig4-SiteAfterPartialDemolition.mxd

Date Saved: 11/28/2017

EPA Contract No.: EP-S5-13-01

TDD No.: S05-0001-1701-003



Reference Map

Legend

- Air Monitoring Station
- Alternative Air Monitoring Station
- Approximate Site Boundary

Pillsbury Mills
1525 East Phillips Street
Springfield, Sangamon County, Illinois

Figure 5
Air Monitoring Stations with Alternates

TETRA TECH

Prepared For: EPA	Prepared By: Tetra Tech Inc.

File Path: G:\G\G9026-START IV\Illinois\Pillsbury Mills Site - RV\mxd\2017-11\Fig5-AirMonitoringLocations.mxd

Date Saved: 11/28/2017 EPA Contract No.: EP-S5-13-01 TDD No.: S05-0001-1701-003

Coordinate System: NAD 1983 StatePlane Illinois West FIPS 1202 Feet
Projection: Transverse Mercator
Datum: North American 1983

APPENDIX B

DATA SUMMARY TABLES

Table 1
Transportation and Disposal Log
(ACWM Debris)
Pillsbury Mills Site

Manifest Count	Truck Number	Manifest Number	Date Shipped	Tons per Load (Friable)
1	982	5503944	2/15/2017	15.71
2	245	5503945	2/15/2017	27.83
3	982	5503946	2/15/2017	27.40
4	245	5503947	2/15/2017	22.40
5	982	5503948	2/16/2017	17.52
6	982	5503949	2/17/2017	22.61
7	245	5503950	2/17/2017	24.31
8	244	5503951	2/16/2017	21.33
9	244	5503952	2/16/2017	20.06
10	245	5503953	2/16/2017	24.34
11	982	5503954	2/16/2017	21.26
12	245	5503955	2/16/2017	24.93
13	982	5503956	2/16/2017	23.20
14	245	5503957	2/17/2017	25.46
15	244	5503958	2/17/2017	22.89
16	244	5503959	2/17/2017	20.39
17	982	5503960	2/17/2017	24.27
18	245	5503961	2/17/2017	24.26
19	244	5503962	2/17/2017	20.92
20	982	5503963	2/17/2017	20.29
21	244	5503964	2/21/2017	23.05
22	982	5503965	2/21/2017	23.11
23	982	5503966	2/21/2017	21.55
24	244	5503967	2/22/2017	20.81
25	245	5503968	2/22/2017	24.25
26	245	5503969	2/23/2017	22.00
27	982	5503970	2/22/2017	24.31
28	271	5503971	2/22/2017	24.20
29	245	5503972	2/22/2017	22.41
30	982	5503973	2/22/2017	21.98
31	244	5503974	2/22/2017	20.66
32	261	5503975	2/22/2017	23.47
33	245	5503976	2/22/2017	20.88
34	982	5503977	2/22/2017	21.37
35	244	5503978	2/22/2017	19.10
36	261	5503979	2/22/2017	23.18
37	982	5503980	2/23/2017	22.80
38	244	5503981	2/23/2017	20.73
39	261	5503982	2/23/2017	21.02
40	982	5503983	2/23/2017	21.63
41	244	5503984	2/23/2017	21.28
42	261	5503985	2/23/2017	21.64
43	982	5503986	2/23/2017	19.70
44	244	5503987	2/23/2017	20.10
45	261	5503988	2/23/2017	20.48
46	245	5503989	2/23/2017	23.92
47	244	5503990	2/23/2017	18.82
48	982	5503991	2/24/2017	17.94

Table 1
Transportation and Disposal Log
(ACWM Debris)
Pillsbury Mills Site

Manifest Count	Truck Number	Manifest Number	Date Shipped	Tons per Load (Friable)
49	261	5503992	2/24/2017	20.98
50	245	5503993	2/24/2017	21.66
51	244	5503994	2/24/2017	19.32
52	244	5503995	2/24/2017	17.30
53	982	5503996	2/24/2017	18.35
54	245	5503997	2/24/2017	23.80
55	251	5503998	2/24/2017	22.47
56	244	5503999	2/24/2017	21.81
57	982	5504000	2/24/2017	24.30
58	245	5504001	2/24/2017	25.93
59	251	5504002	2/24/2017	29.06
60	245	5504003	3/6/2017	17.24
61	982	5504004	3/6/2017	18.44
62	261	5504005	3/6/2017	17.91
63	244	5504006	3/6/2017	21.94
64	245	5504007	3/6/2017	23.27
65	982	5504008	3/6/2017	20.67
66	261	5504009	3/7/2017	23.68
67	244	5504010	3/7/2017	20.57
68	245	5504011	3/7/2017	21.64
69	982	5504012	3/7/2017	22.52
70	245	5504013	3/7/2017	25.82
71	982	5504014	3/7/2017	17.54
72	244	5504015	3/7/2017	19.65
73	261	5504016	3/7/2017	19.69
74	245	5504017	3/7/2017	19.42
75	982	5504018	3/7/2017	22.96
76	244	5504019	3/7/2017	22.96
77	261	5504020	3/7/2017	24.15
78	245	5504021	3/8/2017	21.03
79	982	5504022	3/8/2017	19.92
80	244	5504023	3/8/2017	21.54
81	261	5504024	3/8/2017	19.28
82	245	5504025	3/8/2017	22.05
83	982	5504026	3/8/2017	19.17
84	261	5504027	3/8/2017	19.32
85	244	5504028	3/8/2017	18.33
86	245	5504029	3/8/2017	18.94
87	982	5504030	3/8/2017	19.65
88	261	5504031	3/8/2017	19.88
89	244	5504032	3/8/2017	22.38
90	245	5504033	3/9/2017	27.82
91	982	5504034	3/9/2017	24.26
92	261	5504035	3/9/2017	20.66
93	244	5504036	3/9/2017	28.57
94	982	5504037	3/9/2017	22.26
95	244	5504038	3/9/2017	22.82
96	982	5504039	3/9/2017	24.85

Table 1
Transportation and Disposal Log
(ACWM Debris)
Pillsbury Mills Site

Manifest Count	Truck Number	Manifest Number	Date Shipped	Tons per Load (Friable)
97	244	5504040	3/9/2017	25.90
98	982	5504041	3/9/2017	25.28
99	244	5504042	3/9/2017	27.09
100	982	5504043	3/10/2017	21.81

Total Tons ACWM Debris 2,195.63

Table 2
Transportation and Disposal Log – ACWM Pipe-Wrap
Republic Services, Sangamon Valley Landfill
2565 Sand Hill Road, Springfield, Illinois 62707
Pillsbury Mills Site

Manifest Sequence	Manifest Number	Date Shipped	Cubic Yards per Load (Friable)	Weight Ticket Number	Tons
1	MP5-24-01	4/5/2017	40	1015263	8.73
2	MP5-24-02	4/20/2017	40	1016279	9.24
3	MP5-24-03	4/21/2017	40	1016380	4.79
4	MP5-24-04	4/24/2017	40	1016554	11.2
5	PM5-24-05	4/27/2017	40	1016776	21.29
6	PM5-24-06	4/27/2017	40	1016787	10.65
7	PM5-24-07	4/27/2017	40	1016804	12.64
8	PM5-24-08	4/28/2017	40	1016857	10.03
9	PM5-24-09	5/1/2017	40	1016954	4.34
10	PM5-24-10	5/3/2017	40	1017120	9.3
11	PM5-24-11	5/3/2017	40	1017127	7.12
12	PM5-24-12	5/5/2017	40	1017279	8.12
13	PM5-24-13	5/5/2017	40	1017291	8.47
14	PM5-24-14	5/8/2017	40	1017375	5.06
15	PM5-24-15	5/10/2017	40	1017583	5.34
16	PM5-24-16	5/11/2017	40	1017712	5.23
17	PM5-24-17	5/17/2017	40	1018105	4.35
18	PM5-24-18	5/23/2017	40	1018478	5.76
19	PM5-24-19	6/2/2017	40	1019200	4.99
20	PM5-24-20	6/19/2017	40	1020410	9.16
21	PM5-24-21	6/29/2017	40	1021212	9.88
22	PM5-24-22	7/21/2017	40	1022869	6.8
23	PM5-24-23	7/27/2017	40	1023208	8.8
24	PM5-24-24	8/4/2017	40	1023752	9.33
25	PM5-24-25	8/11/2017	40	1024384	9.3
26	PM5-24-26	8/22/2017	40	1025225	6.71
27	PM5-24-27	8/30/2017	40	1025755	6.11
28	PM5-24-28	9/8/2017	40	1026295	5.98
29	PM5-24-29	9/21/2017	40	1027231	5.48

Total Cubic Yards 1160

Table 3
Inventory of Remaining Inaccessible ACM Pipe-wrap
"C" Mill Building Warehouse #6
Pillsbury Mills Site

Floor Location	Description	Pipe Diameter (In.)	Length (Ft.)	Total Length (Ft.)
4th Floor	2 Vertical pipe runs	2	12	24
5th Floor	3 Vertical pipe runs	2	12	36
" "	1 Vertical pipe run	2	6	6
6th Floor	1 Vertical pipe run	2	12	12
" "	1 Vertical pipe run	2	3	3
7th Floor	3 Vertical pipe runs	2	12	36
8th Floor	2 Vertical pipe runs	2	12	24
9th Floor	1 Horizontal pipe run	1	15	15
" "	1 Vertical pipe run	1	10	10
" "	1 Horizontal pipe run	8	34	34
" "	1 Vertical pipe run	8	6	6
			Total feet	206

Table 4
Perimeter Air PCM and TEM Sampling Results
Pillsbury Mills Site

Sample ID	Air Monitoring Station Location	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Segment Volume (l)	Total Sample Volume (l)	PCM Results (f/cc)	Method Detection Limit (f/cc)
						Initial	Final	Average				
PM-S01-020817	Station 1	001	9:16	14:50	334	22.51	21.50	22.01	7349.7	7349.7	<0.000367	0.000367
PM-S02-020817	Station 2	002	8:00	14:55	415	23.42	22.61	23.01	9549.6	9549.6	0.000309	0.000281
PM-S03-020817	Station 3	003	8:20	15:02	402	21.16	21.70	21.43	8613.6	8613.7	<0.000312	0.000312
PM-S04-020817	Station 4	004	8:47	15:57	430	22.47	20.50	21.49	9239.8	9239.8	0.000319	0.000291
PM-S01-020917	Station 1	001	8:35	16:25	470	22.48	13.32	17.90	8413.2	8413.2	<0.000320	0.00032
PM-S02-020917	Station 2	002	8:18	16:16	478	23.42	19.88	21.65	10346.3	10346.3	<0.000260	0.00026
PM-S03-020917	Station 3	003	8:09	16:06	477	25.53	23.49	24.51	11691.2	11691.2	<0.000230	0.00023
PM-S04-020917	Station 4	004	7:55	16:02	487	34.46	10.86	22.66	11035.2	11035.2	Occluded	NA
PM-S01-021017	Station 1	001	7:50	16:20	510	25.11	23.45	24.28	12382.0	12382.0	0.000317	0.000218
PM-S02-021017	Station 2	002	8:41	16:25	464	23.42	19.88	21.65	10043.3	10043.3	Occluded	NA
PM-S03-021017	Station 3	003	8:35	16:25	470	26.36	19.36	22.86	10743.3	10743.3	Occluded	NA
PM-S04-021017	Station 4	004	8:10	14:41	391	29.68	27.17	28.42	11113.0	11113.0	Occluded	NA
PM-S01-021317	Station 1	001	9:20	16:22	422	19.06	18.18	18.62	7858.5	7858.5	<0.000342	0.000342
PM-S02-021317	Station 2	002	9:30	16:37	427	21.85	18.99	20.42	8720.2	8720.2	0.000338	0.000309
PM-S03-021317	Station 3	003	9:40	16:49	429	21.51	19.15	20.33	8721.4	8721.4	0.00045	0.000207
PM-S04-021317	Station 4	004	9:50	17:20	450	21.91	17.77	19.84	8926.2	8926.2	Occluded	NA
PM-S01-021417	Station 1	001	7:45	16:20	515	21.65	21.01	21.33	10984.7	10984.7	Occluded	NA
PM-S02-021417	Station 2	002	8:29	16:22	473	21.26	19.47	20.36	9631.5	9631.5	Occluded	NA
PM-S03-021417	Station 3	003	8:02	14:07	365	24.27	22.59	23.43	8551.6	8551.6	<0.000314	0.000314
PM-S04-021417	Station 4	004	7:30	14:15	405	21.34	20.88	21.11	8547.7	8547.7	Occluded	NA
PM-S01-021517	Station 1	001	7:47	15:31	464	22.34	21.22	21.78	10105.9	10105.9	Occluded	NA
PM-S02-021517	Station 2	002	7:49	15:40	471	20.99	19.19	20.09	9463.1	9463.1	0.00031	0.000284
PM-S03-021517	Station 3	003	7:55	15:50	475	22.51	17.54	20.03	9512.3	9512.3	Occluded	NA
PM-S04-021517	Station 4	004	7:58	16:00	482	22.68	19.93	21.30	10267.6	10268	Occluded	NA
PM-S01-021617	Station 1	001	7:40	15:40	480	22.58	20.27	21.42	10282.6	10282.6	Occluded	NA
PM-S02-021617	Station 2	002	7:45	15:45	480	21.09	19.51	20.30	9744.5	9744.5	Occluded	NA
PM-S03-021617	Station 3	003	7:50	15:50	480	17.52	14.50	16.01	7684.3	7684.3	Occluded	NA
PM-S04-021617	Station 4	004	7:55	16:00	485	20.50	18.46	19.48	9448.3	9448.3	Occluded	NA
PM-S01-022117	Station 1	001	9:44	16:10	386	21.79	20.19	20.99	8101.2	8101.2	0.000788	0.000332
PM-S02-022117	Station 2	002	9:50	16:25	395	21.13	19.79	20.46	8080.9	8080.9	<0.000332	0.000332
PM-S03-022117	Station 3	003	9:55	16:20	385	22.75	18.87	20.81	8011.7	8011.7	Occluded	NA
PM-S04-022117	Station 4	004	9:55	16:15	380	22.12	21.27	21.70	8244.3	8244.3	Occluded	NA
PM-S01-022217	Station 1	001	7:27	16:20	533	21.57	19.53	20.55	10951.6	10951.6	Occluded	NA
PM-S02-022217	Station 2	002	7:30	16:02	512	20.78	19.71	20.25	10366.7	10366.7	Occluded	NA
PM-S03-022217	Station 3	003	7:35	16:10	515	21.85	17.72	19.79	10189.8	10189.8	Occluded	NA
PM-S04-022217	Station 4	004	7:40	16:15	515	19.44	20.10	19.77	10182.1	10182.1	Occluded	NA
PM-S01-022317	Station 1	001	7:25	16:00	515	21.68	19.88	20.78	10700.7	10700.7	Occluded	NA
PM-S02-022317	Station 2	002	7:30	16:09	519	21.41	18.51	19.96	10359.2	10359.2	0.000284	0.00026
PM-S03-022317	Station 3	003	7:40	16:15	515	20.32	18.69	19.50	10043.8	10043.8	<0.000268	<0.000268

Table 4
Perimeter Air PCM and TEM Sampling Results
Pillsbury Mills Site

Sample ID	Air Monitoring Station Location	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Segment Volume (l)	Total Sample Volume (l)	PCM Results (f/cc)	Method Detection Limit (f/cc)
						Initial	Final	Average				
PM-S04-022317	Station 4	004	7:50	16:30	520	21.15	17.85	19.50	10138.7	10138.7	Occluded	NA
PM-S01-022717	Station 1	001	9:50	16:00	370	21.71	19.72	20.72	7666.0	7666.0	Occluded	NA
PM-S02-022717	Station 2	002	9:55	15:50	355	20.79	20.29	20.54	7291.3	7291.3	Occluded	NA
PM-S03-022717	Station 3	003	10:00	15:55	355	20.79	17.81	19.30	6850.4	6850.4	0.00143	0.000392
PM-S04-022717	Station 4	004	10:10	16:00	350	20.17	18.63	19.40	6790.3	6790.3	<0.000397	0.000397
PM-S01-030717	Station 1	001	8:40	15:15	395	12.69	11.75	12.22	4825.3	4825.3	0.000711	0.000558
PM-S02-030717	Station 2	002	8:45	15:20	395	12.68	12.60	12.64	4993.0	4993.0	0.00059	0.000539
PM-S03-030717	Station 3	003	8:50	15:25	395	12.22	10.75	11.49	4537.6	4537.6	<0.000592	0.000592
PM-S04-030717	Station 4	004	8:55	15:30	395	11.29	18.63	14.96	5908.0	5908.0	<0.000456	0.000456
PM-S01-030817	Station 1	001	8:45	15:40	415	12.62	12.40	12.51	5192.7	5192.7	0.00179	0.000519
PM-S02-030817	Station 2	002	8:50	15:45	415	12.10	11.88	11.99	4976.1	4976.1	<0.000540	0.000540
PM-S03-030817	Station 3	003	8:55	15:50	415	12.44	11.80	12.12	5029.6	5029.6	0.00078	0.000534
PM-S04-030817	Station 4	004	9:00	15:55	415	12.33	12.04	12.19	5058.4	5058.4	<0.000531	0.000531
PM-S01-032317	Station 1	001	7:20	11:40	260	14.95	13.89	14.42	3749.8	7830.5	<0.000343	0.000343
			11:40	16:25	285	13.89	14.74	14.32	4080.6			
PM-S02-032317	Station 2	002	7:25	11:45	260	14.96	14.16	14.56	3785.3	7551.7	<0.000357	0.000357
			11:45	16:10	265	14.16	14.26	14.21	3766.3			
PM-S03-032317	Station 3	003	7:30	11:50	260	15.27	11.43	13.35	3470.6	6874.5	<0.000391	0.000391
			11:50	16:15	265	11.43	14.26	12.85	3403.9			
PM-S04-032317	Station 4	004	7:55	11:55	240	17.11	16.38	16.74	4018.6	8307.3	<0.000323	0.000323
			11:55	16:20	265	16.38	15.99	16.18	4288.8			
PM-S01-032917	Station 1	001	7:30	11:25	235	15.14	12.03	13.58	3192.4	7682.3	0.000447	0.000350
			11:25	16:25	300	15.10	14.84	14.97	4490.0			
PM-S02-032917	Station 2	002	7:35	11:30	235	15.04	13.91	14.47	3400.9	7361.2	<0.000366	0.000366
			11:30	16:10	280	14.96	13.32	14.14	3960.3			
PM-S03-032917	Station 3	003	7:40	11:35	235	15.28	14.91	15.09	3546.6	7863.7	<0.000342	0.000342
			11:35	16:15	280	15.13	15.71	15.42	4317.0			
PM-S04-032917	Station 4	004	7:45	11:40	235	16.92	13.85	15.38	3614.9	7967.9	<0.000338	0.000338
			11:40	16:20	280	15.62	15.47	15.55	4353.0			
PM-S01-040417	Station 1	001	9:10	12:50	220	15.26	13.42	14.34	3153.8	6271.9	<0.000429	0.000429
			12:50	16:15	205	15.31	15.11	15.21	3118.1			
PM-S02-040417	Station 2	002	9:15	12:55	220	15.70	14.46	15.08	3318.4	6399.6	<0.000420	0.000420
			12:55	16:20	205	15.69	14.37	15.03	3081.3			
PM-S03-040417 *	Station 3 *	003	9:20	13:00	220	15.61	12.72	14.16	3115.9	6339.9	0.00178 *	0.000424
			13:00	16:25	205	15.72	15.73	15.73	3224.0			
PM-S04-040417	Station 4	004	9:25	13:05	220	15.61	14.03	14.82	3260.3	6305.6	<0.000427	0.000427
			13:05	16:30	205	15.07	14.64	14.86	3045.3			
PM-S01-040617	Station 1	001	7:35	11:35	240	15.22	13.71	14.46	3471.4	6951.1	<0.000387	0.000387
			11:40	15:30	230	15.17	15.09	15.13	3479.8			

Table 4
Perimeter Air PCM and TEM Sampling Results
Pillsbury Mills Site

Sample ID	Air Monitoring Station Location	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Segment Volume (l)	Total Sample Volume (l)	PCM Results (f/cc)	Method Detection Limit (f/cc)
						Initial	Final	Average				
PM-S02-040617	Station 2	002	7:40	11:45	245	15.65	12.87	14.26	3493.3	7113.7	<0.000379	0.000379
			11:45	15:45	240	15.62	14.55	15.09	3620.4			
PM-S03-040617	Station 3	003	7:45	11:50	245	15.58	11.45	13.51	3310.9	6015.7	<0.000448	0.000448
			11:50	14:50	180	15.47	14.58	15.03	2704.8			
PM-S04-040617	Station 4	004	7:50	11:55	245	15.49	12.62	14.06	3443.8	7027.6	<0.000382	0.000382
			11:55	15:50	235	15.36	15.14	15.25	3583.7			
PM-S01-041317	Station 1	001	7:45	11:35	230	15.40	14.47	14.94	3435.2	6792.5	Occluded	NA
			11:40	15:20	220	15.39	15.13	15.26	3357.3			
PM-S02-041317	Station 2	002	7:50	11:40	230	15.52	13.11	14.32	3292.4	6420.6	Occluded	NA
			11:45	15:30	225	15.53	12.28	13.90	3128.2			
PM-S03-041317	Station 3	003	7:55	11:45	230	15.62	14.63	15.12	3478.6	7038.3	0.00307	0.000382
			11:50	15:40	230	15.58	15.37	15.48	3559.7			
PM-S04-041317	Station 4	004	8:00	11:50	230	15.48	14.46	14.97	3443.8	7092.2	<0.000380	0.000380
			11:55	15:50	235	15.47	15.58	15.53	3648.4			
PM-S01-041917	Station 1	001	7:20	11:35	255	15.27	15.25	15.26	3890.8	7769.3	Occluded	NA
			11:40	16:10	270	15.25	13.48	14.37	3878.6			
PM-S02-041917	Station 2	002	7:35	11:40	245	15.14	15.20	15.17	3716.5	7561.2	0.0011	0.000356
			11:45	16:20	275	15.20	12.77	13.98	3844.6			
PM-S03-041917	Station 3	003	7:45	11:45	240	16.21	15.16	15.69	3765.4	7734.1	0.00184	0.000348
			11:50	16:30	280	15.16	13.18	14.17	3968.7			
PM-S04-041917	Station 4	004	7:55	11:50	235	16.75	14.31	15.53	3649.0	7989.5	0.000982	0.000337
			11:55	16:40	285	16.11	14.35	15.23	4340.5			
PM-S01-041917	Station 1	001	7:20	11:35	255	15.27	15.25	15.26	3890.8	7769.3	Occluded	NA
			11:40	16:10	270	15.25	13.48	14.37	3878.6			
PM-S02-041917	Station 2	002	7:35	11:40	245	15.14	15.20	15.17	3716.5	7561.2	0.0011	0.000356
			11:45	16:20	275	15.20	12.77	13.98	3844.6			
PM-S03-041917	Station 3	003	7:45	11:45	240	16.21	15.16	15.69	3765.4	7734.1	0.00184	0.000348
			11:50	16:30	280	15.16	13.18	14.17	3968.7			
PM-S04-041917	Station 4	004	7:55	11:50	235	16.75	14.31	15.53	3649.0	7989.5	0.000982	0.000337
			11:55	16:40	285	16.11	14.35	15.23	4340.5			
PM-S01-050217	Station 1	001	9:15	11:40	145	15.27	14.38	14.83	2149.8	6234.5	<0.000431	0.000431
			11:40	16:10	270	15.38	14.88	15.13	4084.7			
PM-S02-050217	Station 2	002	9:25	11:50	145	15.08	14.68	14.88	2157.5	6012.2	<0.000448	0.000448
			11:50	16:20	270	14.68	13.88	14.28	3854.7			
PM-S03-050217	Station 3	003	9:35	12:00	145	15.46	15.20	15.33	2222.9	6339.9	0.000619	0.000424
			12:00	16:30	270	15.20	15.29	15.25	4117.0			

Table 4
Perimeter Air PCM and TEM Sampling Results
Pillsbury Mills Site

Sample ID	Air Monitoring Station Location	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Segment Volume (l)	Total Sample Volume (l)	PCM Results (f/cc)	Method Detection Limit (f/cc)
						Initial	Final	Average				
PM-S04-050217	Station 4	004	9:45	12:10	145	15.46	15.12	15.29	2216.7	6250.6	<0.000430	0.000430
			12:10	16:40	270	15.12	14.76	14.94	4033.9			
PM-S01-051017	Station 1	001	7:25	11:25	240	15.14	15.00	15.07	3617.3	8216.1	Occluded	NA
			11:25	16:30	305	15.38	14.78	15.08	4598.8			
PM-S02-051017	Station 2	002	7:35	11:30	235	15.43	15.20	15.31	3598.9	7451.1	<0.000361	0.000361
			11:30	15:55	265	15.20	13.88	14.54	3852.2			
PM-S03-051017	Station 3	003	7:45	11:35	230	15.19	14.65	14.92	3431.5	7577.2	<0.000356	0.000356
			11:35	16:10	275	14.65	15.50	15.08	4145.8			
PM-S04-051017	Station 4	004	7:55	11:40	225	15.70	14.89	15.29	3441.0	7618.5	0.000709	0.000353
			11:40	16:20	280	14.89	14.95	14.92	4177.5			
PM-S01-051617	Station 1	001	9:25	11:25	120	15.21	15.01	15.11	1812.8	6248.2	Occluded	NA
			11:25	16:25	300	15.01	14.56	14.78	4435.4			
PM-S02-051617	Station 2	002	9:35	11:30	115	15.86	15.42	15.64	1798.1	6463.0	Occluded	NA
			11:30	16:35	305	15.42	15.17	15.29	4664.8			
PM-S03-051617	Station 3	003	9:45	11:35	110	16.17	15.55	15.86	1744.5	6565.0	0.00142	0.000410
			11:35	16:45	310	15.55	15.55	15.55	4820.5			
PM-S04-051617	Station 4	004	9:55	11:40	105	15.36	14.82	15.09	1584.7	6033.5	0.000976	0.000446
			11:40	16:55	315	14.82	13.42	14.12	4448.7			
PM-S01-052417	Station 1	001	7:15	11:15	240	14.80	14.62	14.71	3530.4	7522.2	0.000912	0.000358
			11:15	15:45	270	15.01	14.56	14.78	3991.8			
PM-S02-052417	Station 2	002	8:55	11:25	150	15.30	15.29	15.30	2294.7	6407.5	<0.000420	0.000420
			11:25	15:55	270	15.29	15.17	15.23	4112.8			
PM-S03-052417	Station 3	003	7:25	11:25	240	14.31	15.22	14.76	3542.9	7710.7	0.000700	0.000349
			11:35	16:15	280	14.22	15.55	14.89	4167.8			
PM-S04-052417	Station 4	004	7:35	11:45	250	15.21	14.09	14.65	3662.1	7514.1	<0.000358	0.000358
			11:45	16:25	280	14.09	13.42	13.76	3852.0			
PM-S01-053117	Station 1	001	7:15	11:25	250	15.57	15.50	15.53	3882.9	8293.7	0.000532	0.000324
			11:25	16:10	285	15.50	15.46	15.48	4410.8			
PM-S02-053117	Station 2	002	7:35	11:35	240	15.61	12.62	14.12	3388.1	6616.2	0.000741	0.000407
			11:35	15:35	240	15.56	11.34	13.45	3228.1			
PM-S03-053117	Station 3	003	7:45	11:45	240	15.34	14.65	14.99	3598.7	7102.6	0.001	0.000410
			11:45	15:45	240	14.65	14.55	14.60	3503.9			
PM-S04-053117	Station 4	004	7:55	11:55	240	15.33	13.34	14.33	3439.8	6837.4	0.000718	0.000393
			11:40	15:55	255	13.34	13.31	13.32	3397.6			

Table 4
Perimeter Air PCM and TEM Sampling Results
Pillsbury Mills Site

Sample ID	Air Monitoring Station Location	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Segment Volume (l)	Total Sample Volume (l)	PCM Results (f/cc)	Method Detection Limit (f/cc)
						Initial	Final	Average				
PM-S01-060617	Station 1	001	8:55	11:35	160	15.48	14.86	15.17	2427.3	6441.2	0.00061	0.000418
			11:35	15:55	260	15.50	15.37	15.44	4013.9			
PM-S02-060617	Station 2	002	9:05	11:25	140	15.45	11.65	13.55	1896.8	5996.2	<0.000449	0.000449
			11:25	15:55	270	15.38	14.99	15.18	4099.4			
PM-S03-060617	Station 3	003	9:10	11:45	155	15.16	14.74	14.95	2316.8	6322.9	0.000542	0.000426
			11:45	16:10	265	15.15	15.09	15.12	4006.1			
PM-S04-060617	Station 4	004	9:15	11:47	152	15.18	15.04	15.11	2296.7	6307.9	0.000171	0.000427
			11:47	16:15	268	15.04	14.89	14.97	4011.2			
PM-S01-072517	Station 1	001	9:35	11:35	120	15.40	15.37	15.39	1846.3	6186.3	0.00103	0.000434
			11:35	16:25	290	15.37	14.56	14.97	4340.0			
PM-S02-072517	Station 2	002	9:45	11:40	115	15.50	14.51	15.00	1725.3	5403.0	0.000636	0.000498
			11:40	16:05	265	14.51	13.25	13.88	3677.7			
PM-S03-072517	Station 3	003	9:50	11:45	115	15.70	13.96	14.83	1705.0	5329.3	0.00092	0.000504
			11:45	16:15	270	13.96	12.89	13.42	3624.3			
PM-S04-072517	Station 4	004	9:55	11:55	120	15.72	14.96	15.34	1841.0	5602.1	0.000876	0.000480
			11:55	16:20	265	14.96	13.42	14.19	3761.0			
PM-S02-080817	Station 2	001	9:35	11:35	120	15.53	12.25	13.89	1666.4	5913.9	0.00058	< 0.000454
			11:35	16:25	290	15.62	13.67	14.65	4247.5			
PM-S06-080817	Station 6	003	9:50	11:45	115	15.93	15.46	15.69	1804.6	5922.8	0.000993	< 0.000454
			11:45	16:15	270	15.46	15.05	15.25	4118.2			
PM-S07-080817	Station 7	004	9:55	11:55	120	15.82	15.60	15.71	1885.1	5692.1	<0.000472	< 0.000472
			11:55	16:20	265	15.60	13.13	14.37	3807.0			
PM-S03-040417 *	Station 3 *	003	9:20	13:00	220	15.61	12.72	14.16	3115.9	6339.9	<0.000424	0.000424
			13:00	16:25	205	15.72	15.73	15.73	3224.0			

Notes:

* Refer to Corresponding PCM Result of Sample Collected on April 4, 2017 from Station 3
<: Less than
f/cc: Fibers per cubic centimeter
l: Liters
lpm: Liters per minute
Min: Minutes
NA Not Applicable
PCM: Phase contrast microscopy
TEM: Transmission electron microscopy
Value above the 0.001 f/cc action level

Table 5
Universal Waste Disposal Inventory
Pillsbury Mills Site

Manifest Number	Quantity	Waste Type	Labeled/Contents	Disposition Facility
001259819VES	2383	Mercury Containing	5-Foot and above Fluorescent Light Bulbs	TBD
001259819VES	3159	Mercury Containing	4-Foot and under Fluorescent Light Bulbs	TBD
001259820VES	10	Mercury Containing	U-Tube/Compact/Circular Lamp Bulbs	TBD
001259821VES	4,740 (pounds)	Polychlorinated bi-phenyls	PCB Light Ballast	TBD
	141 (pounds)	Lead Batteries	Automotive Lead Acid and Sealed Lead Acid	TBD

Table 6

Lab Pack and Other Hazardous Waste Materials Inventory

Pillsbury Mills Site

	Number of Containers	Estimate Volume Weight	Chemical Name / Description
1	1	1 pound	Sodium Diethylditho-Carbamate
2	1	1 pound	Thiourea
3	1	2 pounds	Potassium Phosphate Dibasic
4	1	¼ pound	Cobalt Chloride
5	1	125 grams	Tetra-acetic Acid
6	1	1 pound	Zinc Metal
7	1	¼ pound	Cobaltous Chloride
8	1	10 grams	Potassium Platinum II Tetrachloride
9	1	20 grams	Cobalt Chloride
10	1	100 grams	Dodecyl Sodium Sulfate
11	1	1 pound	Silver Nitrate
12	1	1 vial	8 glass tubes with Cyanide various concentrations of: 0.0, 0.01, 0.02, 0.03, 0.04, 0.06, 0.08, 0.1
13	1	1 pound	Potassium Thiocynate
14	3	½ quart	Film Solution, n.o.s.
15	1	40 grams	Hydroxynaphthol Blue
16	1	5 pounds	Calcium Sulfate
17	1	1 gallon	Naphtha
18	1	1 gallon	Automotive Surface Cleaner, Solvent
19	1	1 gallon	Kure-n-seal liquid
20	2	500 grams	Citric Acid Monohydroxide
21	1	500 grams	Potassium Hydroxide
22	1	1 kilogram	Ammonium Nitrate
23	1	500 grams	Sodium Phosphate
24	2	500 grams	Potassium Thiocyanate
25	1	1 gallon	Muratic Acid
26	1	1 pint	Muratic Acid
27	1	1 gallon	Sulfuric Acid
28	1	1 gallon	Nitric Acid
29	1	40 grams	Starch Acid
30	1	5 gallon	Ink Jet Coding Ink Solvent
31	1	5 pounds	Bareground Vegetation Control (Imazapyr-Diuron)
32	1	5 gallon	Weedkiller (Bromacil)
33	1	7 gallon	Calci-Gone (HCL Acid)
34	2	1 gallon	Dimethyl Phthalate
35	1	10 pounds	Polymeric Isocyanate (compressed gas)
36	1	10 pounds	Polyamine Fluorocarbon
37	59	10 ounces	Spray paint cans
38	14	Various sizes	Unknown lab grade reagent type chemicals (labs destroyed)

Table 7
Lab Pack Disposal Summary
Pillsbury Mills Site

Manifest Number	Number of Containers	Waste Container Type/Volume	Labeled/Contents	Disposition Facility
001259819VES	8	Compressed Gas Cylinders (Various Sizes)	Acetylene, anhydrous ammonia, carbon dioxide, nitrogen and helium	Veolia Environmental Services 7 Mobile Avenue Sauget, Illinois 62201
001259819VES	8	Lab Pack Boxes (Various Contents)	Ignitable, Reactive, Corrosive (Liquids and Solids)	Veolia Environmental Services 7 Mobile Avenue Sauget, Illinois 62201
001259820VES	7	Six 275-gal totes One 55-gallon drum	Used Oils, Waste-Antifreeze	Veolia Environmental Services West 124 Boundary Road Menomonee Falls, Wisconsin 53051
001259821VES	6	One 275-gallon tote One 5-gallon pail Four Lab Pack Boxes	Used Oils, Mercury Containing, Acids, Aerosol Cans	Veolia Environmental Services West 124 Boundary Road Menomonee Falls, Wisconsin 53051

Table 8
Data Analysis Summary of DustTrak Results
15-Minute Time Weighted Average
Pillsbury Mills Site

	Unfiltered Particulate Data			Filtered Particulate Data		
Date	Max 15-min TWA (mg/m3)	Start Time	End Time	Max 15-min TWA (mg/m3)	Start Time	End Time
2/8/2017	0.005310078	4:20:33 PM	4:35:34 PM	0.005310078	4:20:33 PM	4:35:34 PM
2/9/2017	0.015042082	9:32:14 AM	9:47:15 AM	0.007981174	9:20:05 AM	9:35:06 AM
2/10/2017	0.009620155	11:57:42 AM	12:12:43 PM	0.009620155	11:57:42 AM	12:12:43 PM
2/13/2017	0.030198675	4:48:48 PM	5:03:50 PM	0.030198675	4:48:48 PM	5:03:50 PM
2/14/2017	0.396747781	12:37:38 PM	12:52:38 PM	0.021228635	1:51:50 PM	2:06:51 PM
2/15/2017	0.012299779	3:23:04 PM	3:38:05 PM	0.012299779	3:23:04 PM	3:38:05 PM
2/16/2017	0.208625976	9:40:47 AM	9:55:48 AM	0.073536117	9:41:27 AM	9:56:27 AM
2/17/2017	507.7839577	11:58:09 AM	12:13:09 PM	0.013733843	9:57:16 AM	10:12:16 AM
2/21/2017	0.038011074	4:37:44 PM	4:52:45 PM	0.038011074	4:37:44 PM	4:52:45 PM
2/22/2017	3009.946148	1:26:48 PM	1:41:49 PM	0.052153163	1:58:54 PM	2:13:54 PM
2/23/2017	0.125423355	10:03:22 AM	10:18:22 AM	0.03801111	4:13:54 PM	4:28:54 PM
2/24/2017	4.887215719	11:48:33 AM	12:03:33 PM	0.026913334	10:19:22 AM	10:34:22 AM
2/27/2017	0.070962226	2:49:46 PM	3:04:46 PM	0.011986712	3:40:31 PM	3:55:33 PM
2/28/2017	0.24975333	2:27:16 PM	2:42:16 PM	0.052223641	11:59:18 AM	12:14:19 PM
3/1/2017	0.088293322	2:28:42 PM	2:43:42 PM	0.02891796	8:22:48 AM	8:37:49 AM
3/2/2017	0.356941117	1:16:27 PM	1:31:27 PM	0.015619313	2:08:51 PM	2:23:51 PM
3/6/2017	22.64844673	11:40:02 AM	11:55:02 AM	0.016170732	12:59:38 PM	1:14:39 PM
3/7/2017	0.010604213	12:13:28 PM	12:28:29 PM	0.007659445	12:13:02 PM	12:28:02 PM
3/8/2017	0.009757777	3:28:08 PM	3:43:08 PM	0.016008879	3:23:42 PM	3:38:42 PM
3/9/2017	0.016079911	3:34:51 PM	3:49:51 PM	0.016079911	3:34:51 PM	3:49:51 PM
3/22/2017	0.072596668	8:18:50 AM	8:33:50 AM	0.018141907	3:34:42 PM	3:49:44 PM
3/23/2017	0.020252492	9:15:27 AM	9:30:28 AM	0.020252492	9:15:27 AM	9:30:28 AM
3/27/2017	0.246722205	12:06:56 PM	12:21:56 PM	0.03854606	11:30:48 AM	11:45:48 AM
3/28/2017	0.202042209	2:47:40 PM	3:02:40 PM	0.039017778	10:32:38 AM	10:47:38 AM
3/29/2017	0.071225914	8:55:16 AM	9:10:17 AM	0.071225914	8:55:16 AM	9:10:17 AM
3/30/2017	0.030559379	11:03:53 AM	11:18:54 AM	0.030559379	11:03:53 AM	11:18:54 AM
4/4/2017	0.004358491	2:23:07 PM	2:38:08 PM	0.004358491	2:23:07 PM	2:38:08 PM
4/5/2017	0.022827777	9:08:41 AM	9:23:41 AM	0.020145556	1:19:03 PM	1:34:03 PM
4/6/2017	0.009290788	11:44:25 AM	11:59:26 AM	0.009290788	11:44:25 AM	11:59:26 AM
4/11/2017	0.031384451	12:49:39 PM	1:04:39 PM	0.006838137	11:16:29 AM	11:31:30 AM
4/12/2017	0.028241112	1:29:16 PM	1:44:16 PM	0.011655211	3:43:19 PM	3:58:21 PM
4/13/2017	0.100788891	2:22:34 PM	2:37:34 PM	0.02101663	2:22:41 PM	2:37:42 PM
4/18/2017	0.009196666	10:56:31 AM	11:11:31 AM	0.008980066	12:37:13 PM	12:52:15 PM
4/19/2017	0.022670001	12:45:29 PM	1:00:29 PM	0.015077691	11:35:23 AM	11:50:23 AM
4/20/2017	0.774548897	9:53:33 AM	10:08:33 AM	0.017675916	3:11:14 PM	3:26:14 PM
4/24/2017	0.008992273	1:03:58 PM	1:19:01 PM	0.009030353	1:03:58 PM	1:19:01 PM
4/26/2017	0.010231111	8:36:30 AM	8:51:30 AM	0.010231111	8:36:30 AM	8:51:30 AM
5/2/2017	0.150644446	1:51:22 PM	2:06:22 PM	0.005747222	11:26:09 AM	11:41:09 AM
5/3/2017	0.00632816	11:20:44 AM	11:35:45 AM	0.008100333	11:15:33 AM	11:30:34 AM
5/4/2017	2.834493308	10:40:42 AM	10:55:42 AM	0.011160932	8:29:21 AM	8:44:22 AM
5/10/2017	0.199082206	1:24:58 PM	1:39:58 PM	0.03708879	8:46:03 AM	9:01:03 AM
5/11/2017	0.048563053	4:04:17 PM	4:19:20 PM	0.048563053	4:04:17 PM	4:19:20 PM
5/16/2017	0.021204218	11:47:25 AM	12:02:26 PM	0.021204218	11:47:25 AM	12:02:26 PM
5/17/2017	0.141567775	9:13:37 AM	9:28:37 AM	0.028908889	9:19:42 AM	9:34:42 AM
5/18/2017	0.016644444	8:04:19 AM	8:19:19 AM	0.016644444	8:04:19 AM	8:19:19 AM
5/24/2017	0.735878881	9:29:26 AM	9:44:26 AM	0.018432778	11:06:07 AM	11:21:07 AM
5/25/2017	0.06325	11:08:00 AM	11:23:00 AM	0.050908333	11:07:19 AM	11:22:19 AM
5/30/2017	0.003782464	3:38:01 PM	3:53:02 PM	0.003782464	3:38:01 PM	3:53:02 PM
5/31/2017	0.057859045	2:55:27 PM	3:10:28 PM	0.079009413	2:55:10 PM	3:10:12 PM

Table 8
Data Analysis Summary of DustTrak Results
15-Minute Time Weighted Average
Pillsbury Mills Site

	Unfiltered Particulate Data			Filtered Particulate Data		
Date	Max 15-min TWA (mg/m3)	Start Time	End Time	Max 15-min TWA (mg/m3)	Start Time	End Time
6/1/2017	0.01389789	2:31:06 PM	2:46:07 PM	0.008594684	7:23:23 AM	7:38:24 AM
6/7/2017	0.007813187	2:16:15 PM	2:31:19 PM	0.007813187	2:16:15 PM	2:31:19 PM
6/8/2017	0.007087778	2:12:15 PM	2:27:15 PM	0.007910556	2:12:15 PM	2:27:15 PM
6/15/2017	0.009261641	2:31:20 PM	2:46:21 PM	0.006941667	2:24:40 PM	2:39:40 PM
6/20/2017	0.011133334	12:48:50 PM	1:03:50 PM	0.005618334	12:48:50 PM	1:03:50 PM
6/21/2017	0.491370005	7:38:38 AM	7:53:38 AM	0.034260267	7:21:08 AM	7:36:09 AM
6/22/2017	0.076508884	11:38:04 AM	11:53:04 AM	0.0173	7:57:03 AM	8:12:03 AM
6/28/2017	0.018504444	12:30:47 PM	12:45:47 PM	0.018504444	12:30:47 PM	12:45:47 PM
7/11/2017	0.028245283	1:36:22 PM	1:51:23 PM	0.026970033	1:36:22 PM	1:51:23 PM
7/12/2017	0.025620843	7:26:02 AM	7:41:04 AM	0.025620843	7:26:02 AM	7:41:04 AM
7/13/2017	0.013432372	1:01:40 PM	1:16:41 PM	0.013432372	1:01:40 PM	1:16:41 PM
7/17/2017	0.039122229	4:21:44 PM	4:36:44 PM	0.012320399	12:32:03 PM	12:47:04 PM
7/18/2017	0.025974473	7:20:45 AM	7:35:45 AM	0.025974473	7:20:45 AM	7:35:45 AM
7/25/2017	0.014803552	12:51:10 PM	1:06:10 PM	0.014803552	12:51:10 PM	1:06:10 PM
7/26/2017	0.053138895	9:06:26 AM	9:21:26 AM	0.041932224	11:26:22 AM	11:41:22 AM
7/27/2017	0.012641907	3:01:22 PM	3:16:23 PM	0.012641907	3:01:22 PM	3:16:23 PM
8/1/2017	0.054834433	1:43:02 PM	1:58:02 PM	0.025993341	3:08:47 PM	3:23:48 PM
8/2/2017	0.231676681	7:26:48 AM	7:41:48 AM	0.045206111	7:26:48 AM	7:41:48 AM
8/3/2017	0.029978913	10:03:05 AM	10:18:06 AM	0.029978913	10:03:05 AM	10:18:06 AM
8/8/2017	0.028132221	1:58:11 PM	2:13:11 PM	0.012556541	2:45:36 PM	3:00:37 PM
8/9/2017	0.017964523	8:01:45 AM	8:16:46 AM	0.017964523	8:01:45 AM	8:16:46 AM
8/10/2017	0.120417779	2:44:42 PM	2:59:42 PM	0.032606666	10:25:38 AM	10:40:38 AM
8/15/2017	0.012335557	10:44:47 AM	10:59:47 AM	0.010807991	2:58:11 PM	3:13:12 PM
8/16/2017	0.047872215	10:41:25 AM	10:56:25 AM	0.017797118	8:22:17 AM	8:37:18 AM
8/22/2017	0.012327778	11:45:01 AM	12:00:01 PM	0.014081576	11:45:06 AM	12:00:06 PM
8/23/2017	0.032872228	11:17:03 AM	11:32:03 AM	0.016029444	1:51:06 PM	2:06:06 PM
8/30/2017	0.027911406	9:55:32 AM	10:10:33 AM	0.027911406	9:55:32 AM	10:10:33 AM
8/31/2017	0.032219512	7:57:53 AM	8:12:54 AM	0.032219512	7:57:53 AM	8:12:54 AM
9/5/2017	0.080314453	3:14:14 PM	3:29:14 PM	0.018256098	3:14:08 PM	3:29:09 PM
9/6/2017	0.010941242	7:15:53 AM	7:30:55 AM	0.018952778	3:50:33 PM	4:05:33 PM
9/7/2017	0.02583	3:23:55 PM	3:38:55 PM	0.02599	3:23:55 PM	3:38:55 PM

Key Anomalous Instrument Data > 2.5 mg./m3 for 15 minutes

Table 9
Unknown Chemical Containers Haz-Cat Identified
Pillsbury Mills Site

Sample Number	Quantity (Gallon)	Container Type	Flammable (Y/N)	Explosive (Y/N)	pH	Water Soluble	Reactive (Y/N)	Cyanide (pH>7)	Oxidizer (Y/N)	Chlor-N-Oil PCB	Description
1	55	S	N	N	5	N	N	N	N	Non-PCB	Yellow, amber mineral oil
2	Tote	P	N	N	6	N	N	N	N	Non-PCB	Dark black oil
3	Tote	P	N	N	5	N	N	N	N	Non-PCB	Clear water w minor floating yellow oil
4	Tote	P	N	N	6	Y	N	N	N	Non-PCB	Floating oil with water
5	Tote	P	N	N	7	N	N	N	N	Non-PCB	Dark oil (used)
6	Tote	P	N	N	6	N	N	N	N	Non-PCB	Clear oil
7	Tote	P	N	N	6	N	N	N	N	Non-PCB	Clear oil
8	55	S	N	N	6	N	N	N	N	Non-PCB	Light amber oil w minor dark oil (coates)
9	55	S	N	N	6	N	N	N	N	-	Yellow oil (corn oil)
10	55	S	N	N	8	N	N	N	N	Non-PCB	Dark Black (used oil)
11	80	S	N	N	6	N	N	N	N	Non-PCB	Slightly dark oil
12	70	S	N	N	5	N	N	N	N	Non-PCB	Amber colored oil
13	70	S	N	N	6	N	N	N	N	Non-PCB	Dark Black (used oil)
14	45	S	N	N	5	N	N	N	N	Non-PCB	Dark Black (used oil) Labeled as diesel
15	55	P	N	N	5	N	N	N	N	-	Yellow oil
16	55	P	N	N	6	N	N	N	N	Non-PCB	Dark Black (used oil)
17	55	P	N	N	6	N	N	N	N	Non-PCB	Amber colored oil
18	5	S	N	N	5	N	N	N	N	-	Anti-freeze
19	10	P	N	N	6	N	N	N	N	Non-PCB	Amber colored oil
20	55	P	Y	N	7	N	N	N	N	Non-PCB	Outboard engine fuel 2-stroke mix labeled
21	55	S	N	N	6	N	N	N	N	Non-PCB	Amber colored oil
22	5	S	N	N	7	N	N	N	N	Non-PCB	Dark oil (used)
23	5	S	N	N	8	N	N	N	N	Non-PCB	Dark oil (used) odorous

Key - Not tested for PCBs with Chlor-N-Oil test kit

APPENDIX C

START FIELD NOTES

Pillsbury Mills Asbestos Removal

Rite in the Rain®

ALL-WEATHER

ENVIRONMENTAL FIELD BOOK

Nº 550

ME - 017

103X.9026000150517010003 - 2017

ENTERING INFORMATION IN THE LOGBOOK

Enter the following information at the beginning of each day or whenever warranted during the course of a day:

- Date
- Starting time
- Specific location
- General weather conditions and approximate temperature
- Names of personnel present at the site. Note the affiliation(s) and designation(s) of all personnel
- Equipment calibration and equipment models used.
- Changes in instructions or activities at the site
- Levels of personal protective clothing and equipment
- A general title of the first task undertaken (for example, well installation at MW-11, decon at borehole BH-11, groundwater sampling at MW-11)
- Approximate scale for all diagrams. If this can't be done, write "not to scale" on the diagram.
- Indicate the north direction on all maps and cross-sections. Label features on each diagram.
- Corrections, if necessary, necessarily including a single line through the entry being corrected. Initial and date any corrections made in the logbook.
- After last entry on each page, initials of the person recording notes. No information is to be entered in the area following these initials.
- At the end of the day, signature of the person recording notes and date at the bottom of the last page. Indicate the end of the work day by writing "Left site at (time)." A diagonal line must be drawn across any remaining blank space at the bottom of this last page.

The following information should be recorded in the logbook after taking a photograph:

- Time, date, location, direction, and, if appropriate, weather conditions
- Description of the subject photographed and the reason for taking the picture
- Sequential number of the photograph and the film roll number or disposable camera used (if applicable)
- Name of the photographer

The following information should be entered into the logbook when collecting samples:

- Location description
- Name(s) of sampler(s)
- Collection time
- Designation of sample as a grab or composite sample
- Type of sample (water, sediment, soil gas, etc.)
- On-site measurement data (pH, temperature, specific conductivity)
- Field observations (odors, colors, weather, etc.)
- Preliminary sample description
- Type of preservative used
- Instrument readings.

X2057

NON- RESPONSIVE

[redacted]

Ke

Bu

START FIELD LOGBOOK 017

Logbook Tracking Number ME [redacted]

Site Name Pillsbury Mills Asbestos Removal

Issue to TBINZ TT Springfield

Date Issued 1/10/17 62702

TDD # 103K902600015051701063

Dell B1265dnF

Sets

Zero Cal Ge

Rite in the Rain
ALL-WEATHER WRITING PAPER

ALL-WEATHER
ENVIRONMENTAL FIELD BOOK
Numbered Pages

Name TOM BINZ

Address

Phone 314-550-4208

Project Pillsbury Mills Asbestos Removal

Binz

Rite in paper th pencil o of the fie

Specificat

CONTENTS

PAGE	REFERENCE	DATE

Reference Page Index

CONTENTS

PAGE	REFERENCE	DATE
	George Krebs NON- RESPONSIVE [redacted]	
	Charles Mikolain	
	OSP Shawn	

Location ______________ Date 2/6/17

Project / Client Mobilization Day

Springfield weather; Overcast 48°F N winds

0832 Depart ~~Site~~ STL St, Louis to
 Pick up OSC items stored at Chemtec.
1347 Arrive at site.
 OSC Tasking Deploy PDRs
 at Gate entrance & South Fence line
 PDR Upwind # 1
 PDR Downwind # 2
1410 OSC want START to address
 SOSC Krebs comments on ECP
1710 OSC Departs Site
 RM & START stay to meet w/
 Private Security Firm & allow
 PDRs longer Run Time.
1752 PDR #1 Conc: 0.077 mg/m³
 TWA: 0.138 mg/m³
 PDR#2 Conc: 0.059 mg/m³
 TWA: 0.193 mg/m³
1757 Depart Site
 ECP Comments will delay
 until Tuesday 2/7/17

[signature]
2/6/17

Location _____ Date 2/7/17

Project / Client 58°F 7-10mph SSE 50% cor
Humid 92%

0755 Arrive on-site & SAFETY BRIEF:
- SLIP, TRIPS & FALLS
- Hot Zone Level "C"
- Approach to Place barricades
- WET Areas

OSC Directs SOSC, Krebs & ERRS Foreman, Bret Glasphy to Recon buildings for Asbestos Removal approach, safety, and ~~f~~ familiarize w/ FEMA building Nomenclature & Location. Also, OSC Directs Run to hook-up to fire hydrant for Cleaning of Concrete surfaces for site ingress/egress and due to Field Trailers Arriving today.

0842 OSC will not be on-site at All The week of 2/20/17 due to Travel, Christina Benekie will be onsite on 2/21 - 2/24/17.

0935 Winds are shifting now: WESTERLY · 17 mph.

1002 T+ Justin Bolton - KHJ Techs Arrives

1012 SOSC George Krebs Sustains a hand puncture wound from razor wire near site Entrance

Location _____ Date 2/7/17

Project / Client _____

1210 Depart site for brief Lunch

1242 Drive to purchase:
- Job boxs for AIRCON's
- Locks and cables to Secure all instruments while deployed

1450 Return To site.
START Binz & Buttons SET about to develop Air Monitoring Stations; Location set up as per the OSC; who wants All but one instrument out side of the site fence

1607 Air Monitoring stations positions are nearly Done

1705 Depart site.
Forgot PDR's
#1 upwind TWA = 0.162
#2 down TWA = 0.177

2/7/17

Location WEDNESDAY Date 2/8/17

Project / Client 28°F CO SNOW W NW 8mph

0700 TAILGATE SAFETY Brief
- SPD & Fire Dept here.
- Trailers to be here today

0740 SETup station 2

0800 STATION #2
Avg = 23.475 L/min

0820 STATION #3
Avg = 21,155 L/min

0847 STATION #4
Avg = 22,473 L/min

0916 STATION #1 CP
Ave = 21,504 L/min

1202 STATION #4 Battery died and was replaced

1225 Depart site for Lunch

1250 Return to Site

1417 Paul Reusch and Robert Condrad Arrive w/agency ATV and Viper attenna's.

1533 OSC Reusch & Robert Condrad depart site,

1541 Viper Setup will Take additional time to debug.

Location Date 2/8/17

Project / Client

1450 Station 1
Ave: 22,506

1455 station #2
Ave: 22.607

1502 STATION #3
Ave: 21,699

1507 STATION #4
Ave, 20,503

1528 Depart site
- Need protective system for AIR Cons
- Need a memory stick

PDRS #1

2/8/17

Location 13°F Clear Date 2/9/17

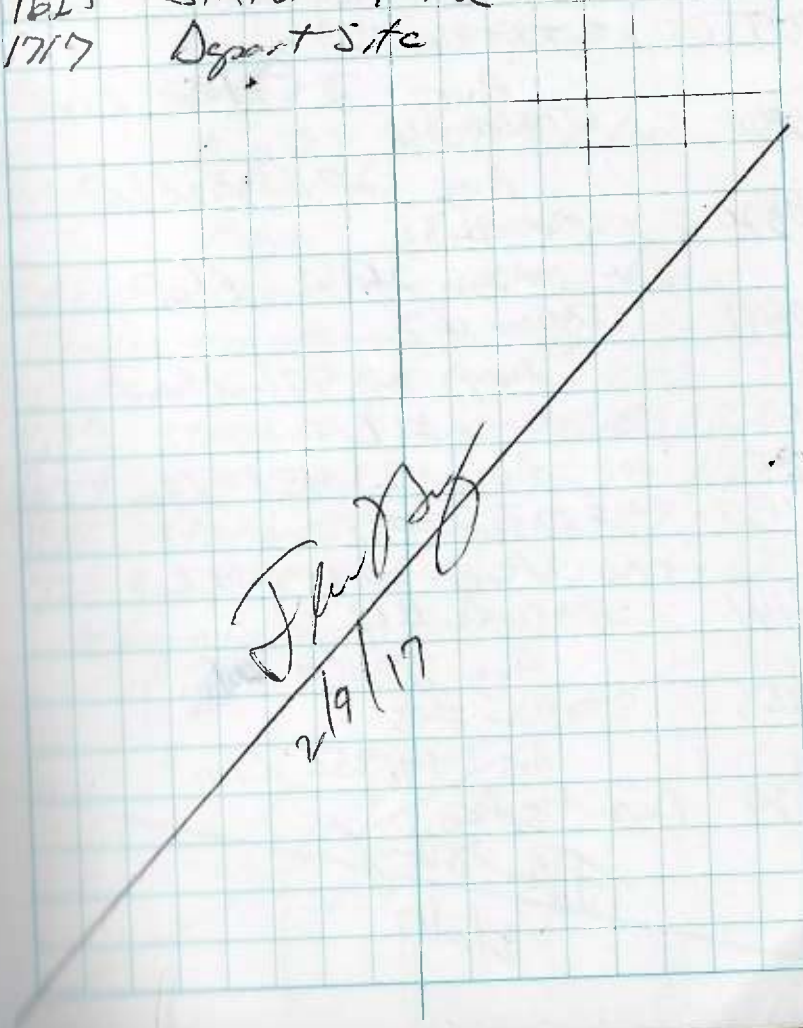
Project / Client WIND West 8mph

0650 Arrive on site
0700 Safety Brief
0722 Briefing over
Initiate AIR Monitor system
0755 station #4
Avg: 34,458 L/m³
0809 Station #3
Avg: 25,532 L/m³
0818 station #2
Avg; 23,451 L/m³
~~STATION #2~~ #3
0835 Station #1
Avg. 22,480 L/m³
1050 Winds Northwest 9 mph.
High gain antenna's do not
appear to work at
stations #3 & #4 at this
time
1230 Lunch break
1326 Return to site
20°F Wind WSW 6mph
PDR #1 Down TWA = 0.002
#2 Upwind TWA = 0.003

Location Date 2/9/17

Project / Client

1602 STATION #4 AVG 10,861 L/m³
1606 STATION #3 Ave 23,488 L/m³
1616 STATION #2 Ave 19,875 L/m³
1625 STATION #1 Ave 17,321 L/m³
1717 Depart Site



Location _____ Date 2/10/17

Project / Client _____

0700 SAFETY Brief
- Moving debris piles while wet today
- Rock coming in

0750 STATION #1
Avg: 25,106 l/m³

0810 STATION #4
Avg: 29,675 l/m³

0820 STATION #3
Avg: 26361 l/m³

0841 STATION #2
Avg 20.401 l/m³

1420 STATION #1
Avg 23,451 l/m³

1430 STATION #2
Avg 20,107 l/m³

1441 STATION #4
Avg: 27,169 l/m³

1455 Station #3
Avg 19,355 l/m³

1534 Depart Site

2/10/17

Location Monday Date 2/13/17

Project / Client Sunny Clear

0855 Arrive on-site

0920 STATION 1
Avg = 19.061 l/m³

0930 STATION 2
Avg = 21,850 l/m³

0940 Station 3
Avg = 21,512 l/m³

0950 STATION 4
Avg = 21,905 l/m³

E.W.I.C sets about to get the shower Trailer operational. Setting up Set-Cold for Truck loading OOPS.

1622 STATION #1 Avg = 18,183 l/m³

1637 STATION #2 Avg = 18,994 l/m³

1644 STATION #3 Avg = 19,147 l/m

1720 STATION #4 Avg = 17,767 l/m³

Charging all instrument.

2/13/17

12

Location Tuesday Date 2/14/17

Project / Client 35°F WSW 8mph

0700 - Safety Briefing
- Situational awareness
- Continue to move debris.
  - Loading dock
  - Backery Mix Bldg.
  - Remove all containers including empty

Note: No debris loading today

0730 Air Conz Cal up
STATION #4 Avg = 21.335 l/m³
0745 " " 1 Avg = 21,647 l/m³
0802 " #3 Avg = 24,268 l/m³
0829 #2 Avg = = 21,257 l/m³
0955 Newspaper Media arrives

1407 STATION #3 Avg. = 22,590 l/m³
1415 #4 Avg = 20.876 l/m³
1420 #1 Avg = 21,012 l/m³
#2 Avg = 19,466 l/m³
1637 Depart Site

2/14/17

13

Location WEDNESDAY Date 2/15/17

Project / Client Clear, cold 30°F WSW 6mph
1st Day of PACM Debris Loadout

0700 SAFETY Briefing
- First Day of Loading ACM Debris on North SIDE of Site

0745 CAL UP TO High volumes:
0747 STATION #1 Avg = 22.139 l/m³
0749 STATION #2 Avg = 20.922 l/m³
0755 STATION #3 Avg = 22,510 l/m³
0750 STATION #4 Avg = 22,678 l/m³
0752 First Truckload for Loadout of ACM Debris
1531 STATION #1 = Avg. = 21.221 l/m³
1540 Station #2 = 19,191 l/m³
1550 Station #3 = Avg = 17,5472 l/m³
1600 Station #4 = Avg = 19,9266 l/m³
1647 RM Lyberger indicates a total of 5 truckloads of debris this day
1722 Depart site

2/15/17

14

Location Thursday Date 2/16/17

Project / Client Clear, cold 26°F SSE 4mph

2nd Day of PACM Loadout

0635 Arrive on-site

0700 Safety Brief
- Buddy System
- Radios

0740 STATION #1 Avg = 22,575 f/m³

0745 STATION #2 Avg = 21,089 f/m³

0750 STATION #3 Avg = 17,522 f/m³

0755 STATION #4 Avg = 20,301 f/m³

0947 OSC request Start Drez to respond to Sue Paster Community Relations Dept request for Information

1510 Sent Sue Paster project update

1535 Air Con 2 Sample ended today

1540 STATION #1: Avg = 20,269

1545 " #2: Avg = 19,513

1550 " #3: Avg = 14,496

1600 " #4: Avg = 18,461

1722 Depart Site

2/16/17

15

Location Friday Date 2/17/17

Project / Client Clear 46°F SSW 7mph

3rd day of PACM Loadout

0646 Arrive on-site

0700 Safety Briefing
- OSC Turner indicates that because today is a shorter workday, no Aircon 2 samples collected today.

0842 OSC Turner wants TDD Amendment #1 submitted this day if #35K.

1140 Drive to Lowes to acquire wire straps w/ self-tap screws for Viper Antenna wire

1205 OSC Turner executes TDD amendment #1.

1404 Depart site

2/17/17

16 Location Tuesday Date 2-21-17

Project / Client 37°F Light rain.

OSC Kristina Behnke steps in today all week

0635 Depart St. Louis, Mo
0850 Arrive at site
0940 Cal-up Aircons
0945 STATION #1 Avg = 21,789
0950 #2 Avg = 21,127
0955 #3 Avg = 22,748
1000 #4 Avg = 22,124
1120 Rain stops / radar is clear
Put out Repeaters
1210 Andrew Rutherford FOX 59
ABC 20 taking video from
accross the street.
1419 RM Lybarger indicates that
City of Springfield indicates
The "site" is pumping
water from building basements
to city sewer → NOT.
1610 STATION #1 Avg = 20,186 l/m³
1625 STATION #2 Avg = 19,789 l/m³
1620 STATION #3 Avg = 18,871 l/m³
1615 STATION #4 Avg = 21,267 l/m³
1710 Depart site

2/21/17

17 Location WEDNESDAY Date 2/22/17

Project / Client 46°F SSW 3mph Fog II

0641 Arrive on-site
0706 Safety Briefing.
• Media presence; yesterday
ABC/FOX Local affiliate on-site
0725 CAL UP FOR AIRCONS
0727 STATION #1 Avg = 21,568 l/m³
0730 STATION #2 Avg = 20,782 l/m³
0735 STATION #3 Avg = 21,851 l/m³
0740 STATION #4 Avg = 19,438 l/m³
1010 VIPER STATION #4 is
hanging up a high value at
the computer but Dust Track
is performing normally
1240 Depart site to acquire
weather-proof boxes for VIPER
repeaters.
1602 STATION #2 Avg = 19,713 l/m³
1610 #3 Avg = 17,721 l/m³
1615 #4 Avg = 20,104 l/m³
1620 #1 Avg = 19,526 l/m³

2-22-17

Location Thursday Date 2-23-17

Project / Client Foggy 47°F 20% OOR. ESE 3mph

0700 SAFETY Briefing
- Severe weather actions.
  - use rally point
  - use radio comms

0722 Initiate AIRCON2 Cal up This day
0725 STATION #1 Avg = 21.681 l/m
0730 STATION #2 Avg = 21.413 l/m
0740 STATION #3 Avg = 20.319 l/m
0750 STATION #4 Avg = 21.146 l/m
1010 Working on SITREP #1 Draft today.
1022 Review of Vipr Data From 2-22-17 NOTE: STATION #3 had high value and hung up from Metal debris file Blocking Signal?
1550 Final Cal This day
1600 STATION #1 Avg. = 19.875 l/min
1605 STATION #2 Avg. = 18.507 l/min
1615 STATION #3 Avg = 18.686 l/min
1625 STATION #4 Avg = 17.849 l/min
1707 Depart Site

2-23-17

Location Friday Date 2-24-17

Project / Client Clear, Breezy 50th 18mph

0635 Arrive on-site.
0700 Safety Briefing
- High winds today, so go easy with lining Trucks.
- WEAR HARD HATS w/ chin straps (on-order)
- Early demos today -

0735 DSC does not require asbestos Air sampling This day due to early. will set up Dust Tracks
0952 R.M. Lyborgen very supportive today of high winds with dusts + extra water.
1122 Site perimeter inspection passes inspector this day
1344 Initiate Dust Track disassemble.
1438 Depart Site

2/24/17

Location: Monday — Date: 2-27-17

Project / Client: P.C. 42°F SW 6 mph

0900 Safety Briefing
- No loadout of PACM Debris today
- Recon Bakery Mix Tower today

0940 Cal up Air Cans
0950 STATION #1 = 21,714 l/m
0955 " #2 = 21,692 l/m
1000 " #3 = 20,788 l/m
1010 " #4 = 20,174 l/m
1030 • Continue work on SITREP
1210 Driveby inspection of Site perimeter Fence.
1215 There is a new ZIP into the Southern fence Next to power Pole Just east of CP power drop
1220 Observed tresspasser entry next to ~~where~~ warehouse #1 / Dock
1550 End of Day Calibration
1550 STATION #1 19,724 l/m
1550 " " #2 20,290 l/m
1555 " " #3 17,806 l/m
1600 #4 18,628 l/m
1705 Depart Site

[signature] 2/27/17

Location: ~~Wednes~~ Tuesday — Date: 2-28-17

Project / Client: Cloudy c.o. Thunder + RAIN

0700 SAFETY Briefing
- work in Pairs
- Lighting inside the buildings
- Need Manlifts to remove stos
- Some rooms d/In have stos
- Safety barricades for windows
- weather watch
- Additional Decon Trailer + Generator

0744 OSC Turner Task start Binz to not collect ARCON high volume samples Today
1044 AMEREN Illinois responds to a smell of Nat. Gas from RM Lybarger.
1135 AMEREN indicates that Service Line 4", was disconnected in 2013.
AMEREN Supervisors
Henry Felton NON- RESPONSIVE [redacted]
Autumn Kamnick
[illegible] Continue working on PolRep 1
[illegible]5 Present PolRep 1 to OSC
OSC says Send it
[illegible] Depart Site

Location Wednesday Date 3-1-17

Project / Client 48° Cloudy West 18 mph

0635 Arrive on-site

0700 Safety Briefing
- High wind alerts / dress
- 107 Dock is complete
- Gaylord Boxes Full of asbestos
- Need R.O. Boxes

0735 Due to heavy rains experienced last night, OSC Turner elects to not collect High volume samplers this day.

0950 Media Arrives on-site to work with OSC Turner for interview. Local Affiliate ABC 20 Reporter Matt Witkos and videographer Matt? OSC provides interview and provides video (GoPro) inside the building.

1115 Media Departs.

1220 OSC indicates Hawkins is coming on-site w/ PID. To conduct Nat gas survey to close out concerns of service disconnection at 2015

Location (Cont) WEDNESDAY Date 3-1-17

Project / Client

1507 Place call to Quantem Labs confirm PLM price of $16.00 per sample for NIOSH 7402.

1635 Speak w/ OSC about a total of 4 samples from Feb 9 & 10, 2017 as Lab reports that samples are "occluded, excessive particulate". OSC elects to defer till 3/2/17. These are #3. The baseline sample period and this is important baseline consideration of A.M.P.

1710 Depart Site

3/1/17

24

Location Thursday Date 3-2-17

Project / Client 31°F WSW 10mph

0700 Safety Briefing
- Natural Gas order
- R5 employee will video inside the building.
on washer/dryer for stos clothing

0705 Mark Webber, IEPA arrives for Nat gas survey. Hot zone.

1120 Nat gas survey was inconclusive.

1250 Videographer - Toby Wall
Region 5 C/A arrives
Provide photos to Toby Wall

1620 Toby Wall departs

1710 Depart site - Demob for only START this week on this day

3/2/17

25

Location Monday Date 3-6-17

Project / Client cloudy 50°F windy 18mph South
Heavy WIND Forcast today/tonight

0635 Depart Home for T+ office in Fenton Mo to retrive Bio-watch sample supplies for OSC Training in Angola, IN.

0950 Arrive on-site
- OSC does not want Aircon 2 sampling today.
- IEPA Intern on site today w/ George Krebs.

1210 OSC wants the following:
1) Reduced Flow rates on Aircon 2 pumps
2) Decrease Time frame of Aircons
3) Move Air mon stations #2, #3 & #4,

1700 Depart Site

3-6-17

Location: Tuesday Date: 3-7-17

Project / Client: 45°F Sunny winds WSW 18 mph 40 mph Gusts expected today

0647 Arrive on-site
0700 Safety Briefing
 • High winds This day
0735 Setup DustTraks at new Locations as per OSC for STATIONS 2, 3, & 4.
0835 Calup for AIRCON 2. Per OSC instructions, Flowrate and time of collection will be reduced
0840 STATION #1 = 12.685 l/min
0845 " #2 = 12,648 l/min
0850 " #3 = 12,224 l/min
0855 " #4 = 12,299 l/min
1027 All Locations working well except #4 that has intermittent comms to VIPER system
 Call Justin Hotchkiss about This
1145 Justin sez he will Fix repeater
1515 STATION #1 11.747 l/min
1520 " #2 12.597 l/min
1525 " #3 10.751 l/min
1530 " #4 11.286 l/min
1710 Depart site

[signature] 3/7/17

Location: WEDNESDAY Date: 3-8-17

Project / Client: 40°F west 17 MPH clear
Continue Loading BulkPACM Debris

0625 Arrive at site
0659 Safety Brief
 • High Winds during Tarping
 • Trucks backing up
0740 Deploy VIPER DustTraks
 – START Buttons will adjust digibox for STATION #4 repeater. Zero cal all This day
0815 STATION # 3 Antenna system requires upgrade.
0840 Calup AIRCON cassettes
0845 STATION # 1 = 12,623 l/min
0850 " # 2 = 12,104 l/min
0855 " # 3 = 12,436 l/min
0900 # # 4 = 12,334 l/min
1041 Continue to experiment w/ antenna locations for #3 & 4
1415 Appears the repeater is now working well ~~[struck]~~ JB for #4
1540 Air Mon station # 1 = 12.402 l/min
1545 " " #2 = 11.877 l/min
1550 " " " #3 = 11.803 l/min
1555 " " " #4 = 12.044 l/min

CONT. Next page

Location _____ Date 3-8-17

Project / Client (cont.)

1605 Info request for IEPA

Truckloads	Tons
90 Todate	1925.18
12 Today	241.49
4 estimate tomorrow	~~76.XX~~

1617 Sent above info to OEPA
SOSC George Krebs as requested.

1620 Time to remove Posttraks this day.
- Reminder NO site work next week — OSC Training in Indiana

1707 Depart Site.

3-8-17

Location Thursday Date 3-9-17

Project / Client Clear cold 37°F ESE 9mph

0635 Arrive on site
0700 SAFety Briefing
- "Photos" of Joey Churnis and of his vehicles along with Keith Crane - owners of the site.
- week of March 20th.
  - New Tactics for ACM
  - will consider extending daytime hours
  - shut down next week OSC Traing in Angola

0740 Calup Station 1 = 15,464 l/min
0745 " 2 = 16,971 l/min
0750 " 3 = 15,946 l/min
0755 " 4 = 15,829 l/min

0850 Springfield IL Fire service reps arrive to view Vapor + particulate monitoring equipt. - Matt Raymond

1045 Matt Raymond - Training OFF departs → will come back in the Future

1350 Make request to OSC about:
1- 3 replacement AIRCon Batteries

Location ______ Date 3-9-17

Project / Client Thursday Continued

2- Unit #2 DustTrak has/needs maintence from factory due to a "Pump voltage error", during zero calibration.

1615 Time to perform end of day calibration

1620 Station #1 = 12,645 l/min

1625 " #2 = 12,804 l/min

1630 " #3 = 11,541 l/min

1635 " #4 = 12,004 l/min

1709 Depart site

3-9-17

Note: Dembuntil 3/20/17 OSC Training in Angola, f...

Location Monday Date 3-20-17

Project / Client 58°F Clear SSE 12mph

First Day back from 1week shutdown.

0735 Depart St. Louis for site

0930 Arrive on-site

Safety Briefing this day

- ManLift saftey/operation

0950 Changing Tasks today

- New Decon trailer + hookup
- New Generator/more power
- Setup Debris chute for asbestos Loadout.
- Setup containment/Lighting cont.
- New Conex Boxes for Supply storage

1040 OSC Behnke arrives on-site w/ a replacement DustTrak (Note: Record the Serial #)

1218 Leave for Lunch

1310 Return to Site

1400 Contact Quantum Labs about EDD Formatting.

-Results Look GOOD!

1700 Depart Site

3-20-17

Location Tuesday Date 3-21-17

Project / Client 41°F NNE 7mph

0700 Safety Briefing
- Setting up on the 8th Floor
- Buddy System
- Debris bags → light to ~~cry~~ JB carry down stairs

0721 OSC Behnke indicates no dust or asbestos sampling required today

0740 Make phone calls to Batteries PLUS Rex Batteries

Looking For AIRCON 2 replacement batteries as 4 units are not performing long life in the field, OSC Turner approved ERLLC to acquire $26.95 for eight is the best price

1243 OSC Behnke requests a site visit inside the hot zone for tour inside the many buildings.

1640 RM Lybarger asks if I can Lock up site tonight as he is searching for parts

1737 Depart Site

[signature]

Location WEDNESDAY Date 3-22-17

Project / Client 30°F Clear ENE 13mph

0700 Safety Briefing
- Safety Harness use.
- Stay away from overhead debris
- Chute is anchored.
- Precleaning & Seal up windows

0725 Inform OSC Behnke That while batteries for AIRCON exchange for ~~ope~~ JB over 2 weeks, some batteries require changeout. OSC indicates to not collect sample from STATION 1 Today.

Calibrate ~~Pyr~~ JB Pumps.

0740	STATION #2	14,283
0745	STATION #3	15,165
0750	" #4	15,821

1120 All Batteries replaced but fuse blown on #008 battery

1225 Take battery to Rexx for diagnosis

End of Day Calibration

1610	STATION #2	13,867 l/min
1620	STATION #3	14,027 l/min
1630	Station #4	17,794 l/min

1710 Depart site

[signature]

Location Thursday Date 3-23-17

Project / Client 38°F ESE 17 mph C.O.R

First day of stos Removal of 4th Floor Bakery Mix Bldg

0700 Safety Briefing:
- Personnel asbestos Monitoring Today
- Becareful w/ heat stress
- Debris chute modifications

Calibration Air con2 This day

0720 STATION #1 = 14,953 l/min
0725 #2 = 14,597 l/min
0730 #3 = 15,271 l/min
0735 #4 = 17,113 l/min

0819 Viper comms problem today
- will shut down & restart.
- Will disassemble & dry off all antenna Leads from rain Today

1004 Suspecting That The new location for the conex boxes are interfering with Viper comm's. I will ask The RM how easily they can be moved.

MID DAY AIR con cals

1140 STATION #1 13.892 l/min
1145 " #2 14.161 l/min
1150 #3 11,426 l/min
1155 #4 16,375 l/min

Location Thursday Date 3-23-17

Project / Client Light RAIN 41°F ESE 7mph

1240 OSC Blanks indicates That START is not needed Tomorrow, → Checked + Hotel

1320 Purchase more Air con 2 Fuses

1610 STATION #2 = 13,462 l/min
1615 " #3 = 14,264 l/min
1620 " #4 = 15,903 l/min
1625 " #1 = 14,744 l/min

1710 Depart site
Demobilize to St. Louis, Mo

3-23-17

Location: Monday Date: 3-27-17

Project / Client: 50°F ENE 7 mph Lt. Drizzle

Work continues on 4th, 5th & 6th Floor Boiler Mix

0705 Depart St. Louis for site

0855 ~~Arrive~~ Arrive onsite.

0900 Safety Brief.

- Try NOT to use the MANLIFT
- On 3/24/17, 85% of ~~the~~ boiler on 4th Floor was completed,
- OSC says NO AIRCON Today due to rain

0925 Deploy Dust Tracks at new locations designated by OSC,

- STATION #4 move to near Manhole
- STATION #3 Move South
- STATION #2 Move east.
- STATION #1 Remains same

0930 OSC says START will reduce days on-site from 4 to 3 and reduce the number of day's for asbestos lab samples from 3 days to 1 day per week.

1107 OSC requests PolREP support for PolREP #2.

1240 Lunch Break

1317 Return to site

Location: Monday (continued) Date: 3-27-17

Project / Client: Light Rain 56°F N: 10 mph

Initiated 6th Floor

1525 Draft PolRep submittal to OSC for review and approval.

1610 Initiate instrumentation retrieval

1655 OSC indicates that PolREP is approved for release tomorrow

1710 Depart Site

3-27-17

Location Tuesday Date 3-28-17

Project / Client Cloudy Lt. Drizzle 45°F NE 8mph
work continues on 4th & 6th Floor & 5th Fl.

0700 SAFETY Briefing
- Watch your step
- Fall Protection, Tie-off; 300lbs,
- Ladder safety on Metal grating.
- Stay away From Bakery Mix Bldg as bricks came loose & fell.

NOTE; • Midwest demolition mechanic will be escorted by OSC today. Springfield P.D. will be here in the event of Joey Chirnis JR, coming to site as well.
• TT Chris Burns & Matt Villicana are expected on site Today

0918 Mechanic from Midwest Demolition arrives to Fix/startup the Track hoe left behind as a result of the IEPA injunction,

1035 Polrep #2 uploaded and sent out. HSO, OSC indicates That the local county Landfill Sangamon Valley L.F. – Republic Svs.

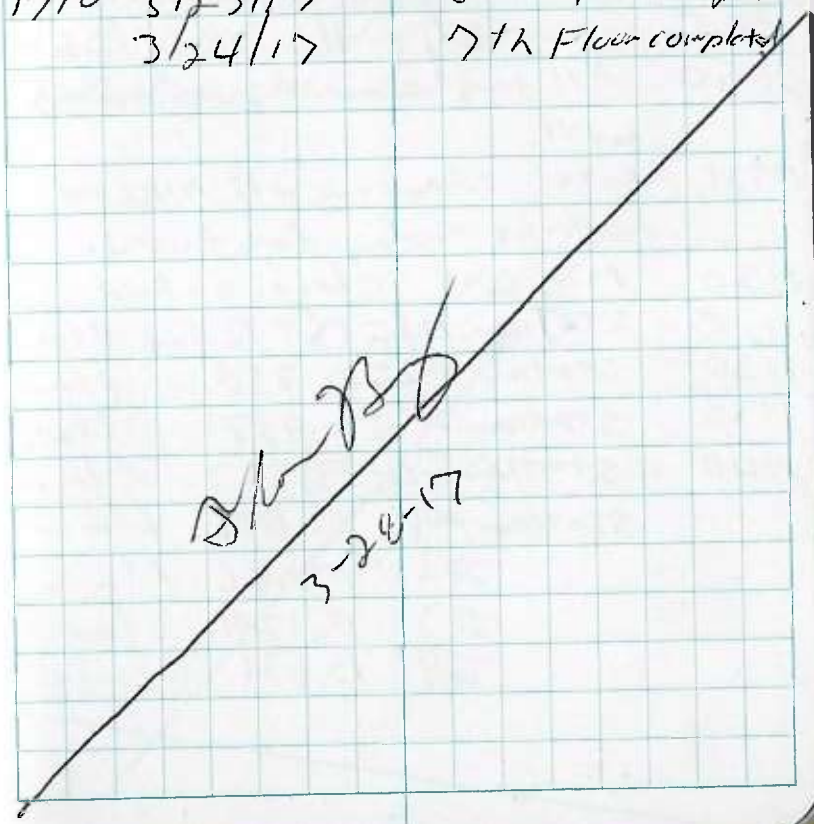
1120 Chris Burns & Matt Villicana arrive on site

1210 Depart for Lunch

Location Tuesday Date 3-28-17

Project / Client Overcast 37°F

1320 Return from Lunch – Meet w OSC
1410 Chris Burns & Matt Villicana depart site
1620 6th Floor is only 50% complete at This Time.
4th Floor is 30% complete at this time
1710 3/23/17 8th Floor complete
3/24/17 7th Floor complete



Location 3-29-17 WEDNESDAY Date

Project / Client 45°F Cloudy

0700 Safety Briefing
- Careful not to break Fluorescent bulbs
- Higher winds Tomorrow/Tonight
- ERLLC Policy on Co. vehicles

0725 AIRCON calup

0730 STATION #1 = 15,143 l/min
0735 #2 = 15,036 l/min
0740 #3 = 15,277 l/min
0745 #4 = 16,918 l/min
0850 All instruments performing well.
0931 Note: Checking all AIRCON batteries today for fuses.
1120 MIDDAY Check calup.
1125 STATION #1 = 12,026 l/min
1130 STATION #2 = 13,958 l/min
1135 STATION #3 = 14,907 l/min
1140 STATION #4 = 13,847 l/min
STATION #1 = 15,096 l/min
#2 = 14,946 l/min
#3 = 15,179 l/min
#4 = 15,621 l/min

Location WEDNESDAY (continued) Date 3-29-17

Project / Client 53 Cloudy Lite Rain

1310 On-Board battery for unit #3 appears to not hold charge for all day NOTE; Take out?
1340 End of the Day Calibration
1345 STATION #1 = 14,837
1350 STATION #2 = 16,324
1355 STATION #3 = 15,708 l/min
1358 STATION #4 = 15,472 l/min
1420 Remove dust tracks
1720 Depart Site

3-29-17

42

Location Thursday Date 3-30-17

Project / Client 53°F Cloudy ca 2 E7mph

0700 Safety Briefing
- U.S. Marshalls (undercover) on-site for stakeout of residences.
- Changeable weather
  6th Floor is done
  5TH Floor is 60% done
- NO asbestos samples today

0910 Heavy Rain with lighting Shut-down

1120 Work Resumes

1255 Republic services Arrives for meeting
- NO burrito wraped, because of double bagging Class "9"
- Daily report with tickets The next day
- Certificates of Disposal
- 6:30 - 3 pm hours of ops
- Need P.O.
- Need Manifests
- Call dispatch my resource

1420 Due to heavy incoming rains, the OSC said to pull the instruments.

1530 Depart Site

43

Location Tuesday Date 4/4/17

Project / Client Cloudy, 55°F W10mph

0655 Depart St. Louis, MO,

0854 Arrive on-site

0906 Call up This day. AIRCONS

0910 STATION #1 = 15,256 l/min

0915 STATION #2 = 15,704 l/min

0920 STATION #3 = 15,609 l/min

0925 STATION #4 = 15,611 l/min

1051 Perform Security check of Site perimeter w/ OSC

1210 Depart site

1239 Return to Site

1250 STATION #1 = 13,415 l/min

1255 STATION #2 = 14,463 "

1300 STATION #3 = 12,717 "

1305 STATION #4 = 14,028 "

1250 STATION #1 = 15,307 "

1255 STATION #2 = 15,693 "

1300 STATION #3 = 15,722 "

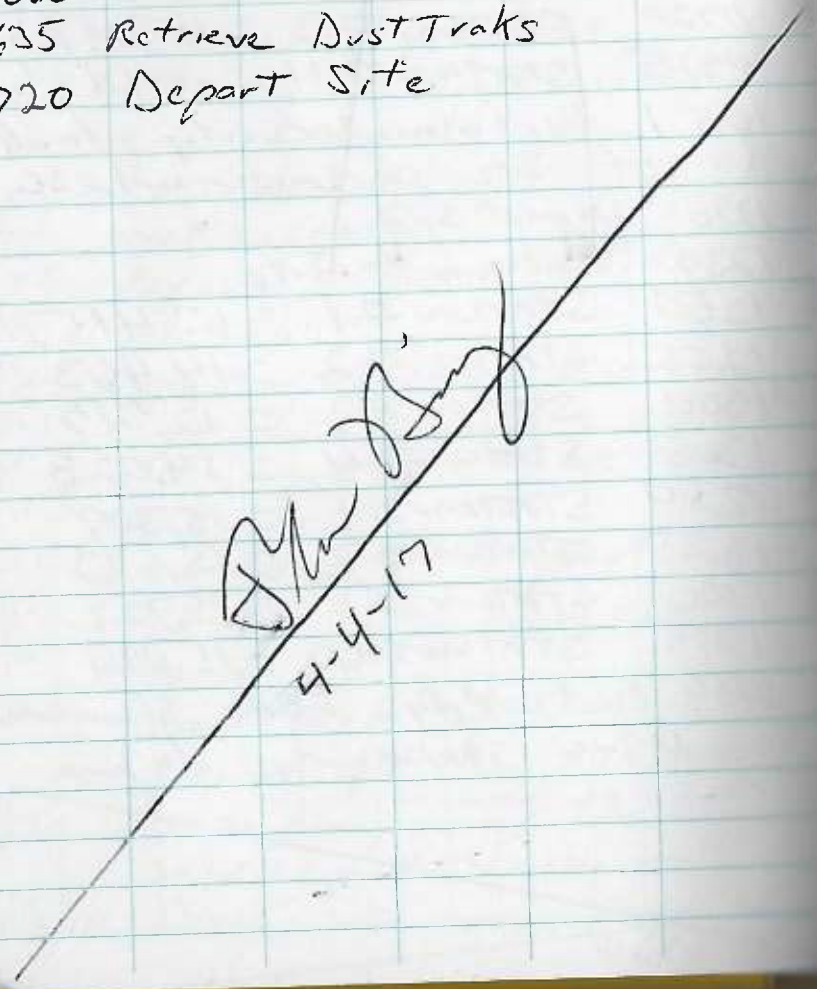
1305 STATION #4 = 15,074 "

1404 Meet w City & IEPA Stormwater MS-4 Stormwater discharge

Location _____ Date 4-4-17

Project / Client (continued)

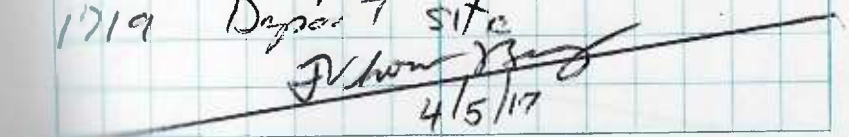
End of the day Calbration.
1615 STATION #1 = 15.113
1620 " #2 = 14,368
1625 #3 = 15,732
1630 #4 = 14,636 —
1635 Retrieve DustTraks
1720 Depart Site



Location WEDNESDAY Date 4/5/17

Project / Client 46°F cloudy windy.
ENE 27 mph

0644 Arrive on site
0700 Safety Brief
- High wind ALERT — Gusty
- Electrical hazards
  - 4th Floor is 80% done
  - 5th floor is done & move supplies to 3rd started
- Crews will move hotels next wk
— NO AIR CON asbestos samples today
1135 call Chris Burns f/up on NPDES SAP
1140 Call John Dingo on SAP examples
1217 Call George Krebs
" Celeste Crowley
" Darin Lacrone
1405 OSC Turner indicates that he will likely move forward w/o a SAP.
1644 Initiate equipt shutdown Thursday
1719 Depart site



Location Thursday Date 4/6/17

Project / Client 44°F Cloudy Gusty

Work ~~Start~~ Starts on 3rd Floor Bakery mix augers 4-14 1"

0650 Arrive on site

0700 Safety Briefing

- If necessary, use torch or Saw-zall for getting into tight places,
- Falling bricks
- Pipewrap between floor

0722 Cal up for Aircons

0735 Station 1 = 15,223 l/min

0740 Station 2 = 15,645 l/min

0745 Station 3 = 15,582 l/min

0750 " 4 = 15,489 l/min

0837 Station 3 digi box is not operational.

1130 Mid Day Calibration

	Endtime		Restart time	
#1	1135	13,705 l/min	1140	15,168 l
#2	1145	12,872 l/min	1145	15,622
#3	1150	11,446 l/min	1150	15,471
#4	1155	12,624 l/m	1155	15,36[illegible]

Location Thursday Date 4/6/17

Project / Client (cont)

1537 End of Day Calibration

1540 #1 = 15,091 l/min

1545 #2 = 14,548 l/min

1450 #3 = 14,582 l/min

1550 #4 = 15,178 l/min

1720 Depart site

Return to St. Louis, MO

[illegible]

4/6/17

Location Tuesday Date 4-11-17

Project / Client 50°F Cloudy

4th Floor demo ~ 4/10/17 Nonon 3rd

0640 Depart St. Louis, MO

0850 Arrive on-site.
OSC does not required
Air Con asbestos samples
Today

0955 Support RM with lab
methodologies for NPDES
discharge permits

1150 Phonecall from John
Keller 217-381-3497
He will bring a former
employee here today

1220 John Keller + Bill Guinn
(217) 416-8841) site visit

1510 Send OSC local newspaper
link that J. Chesnick
pleading guilty and will
be sentenced on Aug 11, 2017

1640 Pull instruments from
The Field This day.

1710 Depart Site

4/11/17

Location WEDNESDAY Date 4-12-17

Project / Client 40°F Clear WNW 1-mph

3rd Floor 60% done 2nd Floor Just started

0700 Safety Harness Briefing
- Do not loop lanyard around
- Do not used double lanyard for
2nd person
- USE I-Beam locks

0810 Instruments deployed
This day
#3 Dust Trak still down

1000 Dan Ambrose
Cutting Edge yard source
came by to meet w RM,
who is gone at this time

1104 Meeting w/ IEPA Darren
Lacroix & OSC Turner to
explore NPDES discharge of
accumulated rainwater in
Complex of basements.
IEPA Lacroix, indicate they
will put the USEPA permit
request on the top priority

1140 OSC Turner indicates a
preference to Bypass the
NPDES APP process

1635 Depart Site

4/13/17

Location Thursday Date 4/13/17

Project / Client 54°F SSE 9

2nd Floor 20% 3rd Fl 80%

0700 Safety Brief
- Swing room of excavator
- Bee's are active
- Removing stos outside today
- 70 NC M bags

0740 OSC wants ERRS to attend to asbestos outside of the South side Bakery Mix Building in a secure area.

Calibration of AIRCON Pumps Thsday

0745 Station #1 = 15.404 l/min
0750 " " 2 = 15.518 l/min
0755 " " 3 = 15.621 l/min
0800 " " 4 = 15.483 l/min

1010 College Student, Taylor Moore arrives to interview OSC Turner re; History of asbestos at Pillsbury,

1135 STATION # 1 14.467 l/min
1140 # 2 13.112 l/min
1145 # 3 14.628 l/min
1150 # 4 14.643 l/min

Location Date 4/13/17

Project / Client (Continued)

1140 STATION 1 15.392 l/min
1145 STATION 2 15.528 l/min
1150 STATION 3 15.582 l/min
1155 " 4 15.468 l/min
1351 Channel 20 News Service arrives for 1730 newscast

End of the Day Calibration

1520 #1 = 15.125 l/min
1530 #2 = 12.278 l/min
1540 #3 = 15.372 l/min
1550 #4 = 15.502 l/min

1727 Depart Site
TBin will prepare COC on 4/14/17

4/13/17

Location Tuesday Date 4-18-17

Project / Client 58°F S winds @ 12mph

Working on Main Floor of bakery Mix

0644 Depart St. Louis

0840 Arrive Springfield

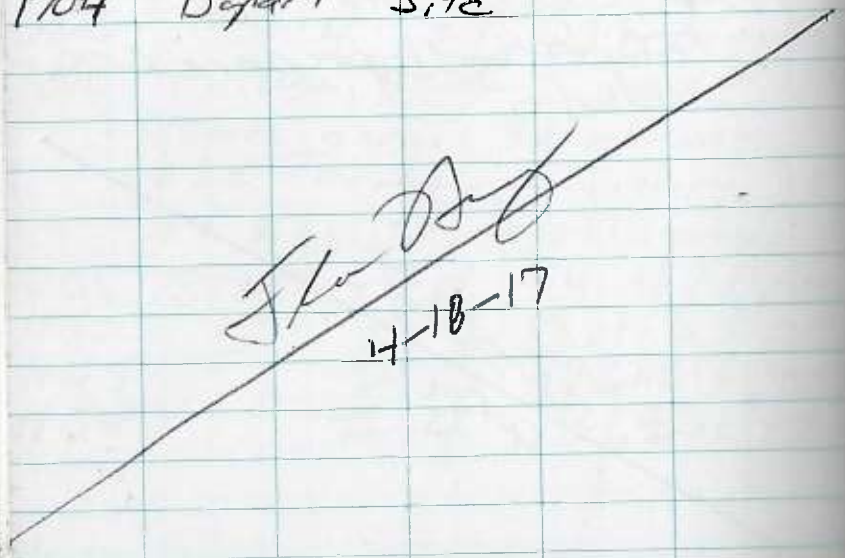
- OSC Sonja Vega is here for most of the week.
- No AIRCONS for Stas sampling will perform tomorrow

0955 RM Lybarger request support for Lab Test methods

1144 Call Rex Bailey about damaged chords for Dust Trak

1555 Initiate Dust trak instrument shut-down

1704 Depart Site



Location Wednesday Date 4-19-17

Project / Client 63°F Mostly Cloudy Humid S Winds

30% of main Floor is done.

0700 Safety Brief
- High Lift Safety
- Close attention
- Not worth replacing
  - 144 bags of Stas
- Electrical Safety

0720 Cal-up this day for High vols

0725 STATION #1 = 15,267 l/min

0735 " " #2 = 15,143 l/min

0745 " #3 = 16,214 l/min

0755 " #4 = 16,746 l/min

Even after fixing the connectors on #4, St. 11 Not work This day

Mid Day cal-up

1135 STATION #1 = 15,249 l/min

1140 " #2 = 15,196 l/min

1145 #3 = 15,164 l/min

1150 #4 = 17,309 l/min

1344 Unit #4 St. 11 not communicating
- Change chords
- Check for antenna
- Check new location

Location WEDNESDAY Date 4/19/17

Project / Client (cont.)

1437 Unit #4 working Nominally
New chord Fixed this.

1610	STATION #1	13,401 l/m
1620	STATION #2	12,765 l/m
1630	STATION #3	13,184 l/m
1640	STATION #4	14,347 l/m.
1702	Depart Site	

4-19-17

Location Thursday Date 4-20-17

Project / Client 71°F Cloudy COR Humid 55%15
Main Floor Bakery Mix work Continues
50% complete.

0700 Safety Briefing
- Loose Pipes still observed
- WOOD Floors are rotten in series "B"
- Mindful of exclusion zones
- Harness Safety

0724 Setup DustTraks at 4 locations. Unit #4 is working well today.

0840 Scattered Showers expected today. RM Mother-in-Law passed

0942 ERAS Crew is reporting vandalism to The Trackhoe. It appears to be a B-B-Gun or Shotgun pellets

1110 Collected representative sample from Pit near Bakery Mix Building. This is for NPDES discharge approval w/ FEPA this is for The Full suite of lab testing. AQUEOUS MEDIA Labeled as:
PM-SW01-042017
One ICE

Location Thursday (Cont) Date 4/20/17

Project / Client

1150 Collect AQUEOUS sample from stain well inside The Bakery Mix Building SAMPLE IS NPDES ALSO. Labeled AS:
PM-SW02-042017
Full Suite of Lab Parameters
1307 Ice down Two coolers of samples for hot foot delivery ~~DX~~ to TekLab in Collinsville Illinois.
1625 Depart Site.

4/20/17

Location Monday Date 4/24/17

Project / Client Clear 50°F

0650 Depart St. Louis
0847 Arrive at The Site
- OSC indicates no High Volume air samples today
- Crew are 70% complete of Series "A" WAREHOUSE #1 & 8
0922 Setup DustTrak perimeter Monitors w/ Vipers
1120 The grind of daily work regiment has set in
1710 Depart Site

4/24/17

Location: Tuesday Date: 4/25/17

Project / Client: 52°F SW 9mph Cloudy

0700 Safety Brief
- Bags = 48
- 12 Bulbs
- – Maintain contact w/others
- – Wild animals
- – 75% Main Floor

0726 OSC Turner indicates no asbestos sample cassettes This day and rest of this week.

0825 All DustTraks deployed

1210 Depart for Hotel & Check in

1237 Return to site

1610 Retrieve all DustTraks

1715 Depart Site

[signature]
4/25/17

Location: WEDNESDAY Date: 4/26/17

Project / Client: 55°F Cloudy

Close to completion of Main Floor

0700 Safety Briefing:
- ManLift Safety Rules
- – OSC Turner indicates That Stavros Emmanuel will be here next week
- – OSC says no Asbestos Samples today

0728 Set out DustTrak instruments today.

0920 – All is well. No DustTrak issues today

0310 OSC Turner says to demob earlier this day

0415 Depart Site

[signature]
4/26/17

Location Tuesday Date 5/2/17

Project / Client 50°F Clear WINDY in 22mph
working on "C" Mill WAREHOUSE #6

0650 Depart St. Louis
0855 Arrive at The Site OSC Emmanouil Stavros
WILL SETUP DustTraks & Aircons
Today due to rain expected
tomorrow & Thursday
CalUP Aircons
0915 STATION #1 15.274 l/min
0925 STATION #2 15.081 " "
0935 STATION #3 15.355 l/min
0945 STATION #4 15.457 " "
1040 Perform Site Safety check.
MID DAY Cal + battery
1140 STATION #1 14.378 l/min
1150 " #2 14.678 l/min
1200 #3 15.204 l/min
1210 #4 15.118 l/min
LAST DAY CAL-UP.
1620 STATION #3 = 15.292 l/min
1630 " #4 = 14.763 l/min
1640 " #2 = 13.875 l/min
1650 #1 = 14.879 l/min
1720 Depart Site
5/2/17
Tom Long

Location WEDNESDAY Date 5/3/17

Project / Client Cloudy 46°F C.O.R. ESE 7mph
WORKING ON "C" MILL WAREHOUSE 6
Main Floor 15% done

0650 ERRS SAFETY Brief.
- ERLLC Multiple Answer Test (written) many topics
- Alleged GUN-FIRE in the neighborhood at 0500 hrs. This morning.
- Be Careful w/ Plastic pipe
- 133 bags yesterday
- Bulbs 12

0745 Deploying DustTraks with Viper today. No AIRCON2 asbestos samples Today or Tomorrow 5/4/17.
0850 Remove Tree Limbs on The east SIDE of The site due to SAFETY concerns & Danger potential to USEPA ATV.
1703 Depart Site
5/3/17
Tom Long

62

Location Thursday Date 5/4/17

Project / Client 40°F NNW 2 mph Light/mod rain working on MAIN floor of "C" M,11 warehouse #6

0700 Safety Briefing
- High WINDS Alert
- ~30% dmc main floor of "C" M,11 warehouse #6

0721 No AIRCON2 asbestos collected today

1147 High WINDS collapsed The stand to Station 1 but can be fixed with super glue, Dust Trak is working well

1703 Depart Site
Demob to St. Louis

5/4/17

63

Location Tuesday Date 5/9/17

Project / Client Clear Humid 62°F NNW 6 mph

0833 Arrive from St. Louis To The Site.

0847 OSC Turner says No particulate or asbestos sampling today dmc to grass cutting work performed by ERRS Team Today

1701 Depart Site

5/9/17

Location Wednesday Date 5/10/17

Project / Client Clear Humid 58°F Eve 5mph

Series "B" First Floor done on Locker RM 80%

0700 Safety Briefing
- Hydration
- Moving to a new Floor/Building
- ACM Bags ~~40~~ 54 totals
- Bulbs 107
- Ballasts 48
- More 4

Calibration Air con 2

0725 Station #1 15,141 l/min
0735 " #2 15,431 l/m
0745 " #3 15,192 l/m
0755 " #4 15,696 l/m

Mid day calc

1125 Station #1 15,003 l/min
1130 STATION #2 15,198 l/min
1135 STATION #3 14,647 l/min
1140 STATION #4 14,891 l/min

End of day Calibration.

1555 STATION #2 15,268 l/min
1610 #3 15,504 l/min
1620 #4 14,948 l/min
1630 #1 14,778 l/min
1715 Depart Site

[signature] 5/10/17

Location 5/11/17 Thursday Date

Project / Client Cloudy Drizzel 61°F N 8mph

0700 Safety Briefing
- Collecting Mercury - Small B
- 0 Bulbs / 0 Ballast
- 134 bags
- Asbestos Free stickers?
- Allowing Ley Metals the ability to remove equipt That belongs to him.

0722 OSC Turner says no asbestos samples today. Today is intended to be a short day. START Binz will demob today.

0945 IEPA reps Krebs & Kinsley Tour site.

1150 IEPA reps very happy with Progress of removal

1325 ERRS crew continue glove bag removal at the Grocery Mix warehouse #3 5Th Floor today.

1704 Depart site

[signature] 5/11/17

Location Tuesday Date 5/16/17

Project / Client clear Humid 76°F SE 17 mph

5th Floor & roof of Grocery Mix Building

0655 Depart St. Louis for Springfield,

0850 Arrive at site

Calibration This day

0925	STATION #1	15.208	l/min
0935	" #2	15.856	"
0945	" #3	16.171	" "
0955	" #4	15.362	" "

1020 OSC request That next PolREA be ready for sendout on 5/16/17,

MID-DAY Calibration

1125	STATION #1	15.006	l/min
1130	STATION #2	15.416	l/min
1135	STATION #3	15.546	l/min
1140	STATION #4	14.823	l/min

End of Day Calibration

1625	STATION 1	14.563	l/min
1635	" 2	15.173	l/min
1645	" 3	15.554	l/min
1655	" 4	13.423	l/min

1722 Depart Site,

[signature] 5/16/17

Location Wednesday Date 5/17/17

Project / Client P.C, Humid 72°F S 25 mph

Working on Grocery Mix Warehouse #3 3rd Floor + Roof

0655 Arrive on-site

- ERRS started new hours today due to hotter daytime Temps
- OSC Turner says no AIRCON samples today, Just Dusttraks

0747 All DustTraks deployed and functioning nomily.

1055 ERRS Foreman Glasphy indicates They will finish the 5th Floor of Grocery Mix Warehouse #3 today.

1240 START will suit up and support ERRS to move supplies down to the 4th Floor of GroceryMix #3 Warehouse.

1555 Perform site security check.

1640 Initiate pulling Dusttraks from deployed locations

1721 Depart site

[signature] 5/17/17

68

Location Thursday Date 5/18/17

Project / Client Clear Humid 72°F C.O. Strong Storms SSW 14mph

0705 Arrive on site
- ERRS crew started early today
- OSC says no AIRCon 2 samples today — once per week.

0814 Dust Traks deployed.

1027 WINDS causing occassional + intermittent spikes in instruments. START will monitor online via ERT web portal.

1310 WINDS are more westerly now. Spikes in instruments have dropped.

1620 OSC indicates START to Pull instruments for return to St. Louis Thursday

1658 Depart site

Jim Berry 5/18/17

Location Tuesday Date 5/23/17 69

Project / Client Cloudy 61°F Lite rain

Completed 5th Floor series "B" Grocery Mix WAREHOUSE #3

0640 Depart St. Louis

0852 Arrive on-site
- No Safety Brief for start as ERRS already at work
- OSC does not desire AIRCon 2 air samples today

0948 Dust Traks deployed.

1035 - START conducts site safety inspection → all ok.

1140 - ERRS working on the 4th floor today of Grocery Mix #3 warehouse

1320 OSC requests support for development of PolRER # 4.

1632 Time to pull all instruments from the field.

1715 Depart Site

Jim Berry 5/23/17

Location Wednesday Date 5/24/17

Project / Client Clear 54°F NW 6mph

0647 Arrive on-site
Crew working 6-4:30 Today
- Meet w OSC
- Place Asbestos samplers today
0710 Calibration This day
0715 STATION #1 = 14.796 l/min
0855 STATION #2 = 15,304 l/min
0725 STATION #3 = 14,308 l/min
0735 STATION #4 = 15,026 l/min

Midday Calibration
1115 STATION #1 = 14.624 l/min
1125 STATION #2 = 15,292 l/min
1135 STATION #3 = ~~14~~,216 l/min
1145 STATION #4 = 14,091 l/min

End of the day Calibration
1545 STATION #1 = 14.028 l/min
1555 " #2 = 12,497 l/min
1615 #3 = 14.166 l/min
1625 #4 = ~~14~~.017 l/min
1655 Depart Site

[signature] 5/24/17

Location Thursday Date 5/25/17

Project / Client PC, 60°F
3rd + 4th Floor of Grocery Bakery Mis warehouse

0655 Arrive on-site
Errscnon started working today due to longer days and higher humidity.
- No asbestos air samples today
0747 - DustTrak Setup & deployment.
0935 OSC requires changes to Pol Rep #4.
1040 Springfield Fire Dept, Chris Redmond comes by for Site Tour.
1215 OSC wants start to demob early today
1420 Initiate removal of instruments this day.
1516 Depart site

[signature] 5/25/17

Location Tuesday Date 5/30/17

Project / Client 62°F P.C.

Crews working on 4th Floor of Grocery Mix

0849	Arrive on-site
	OSC Turner indicates NOT to collect AIRCON High Volume asbestos samples today, JUST Dust Traks w/ Viper Comms Today
1040	No important site observations This day.
1140	Lunch Break
1205	Return from Break
1635	Depart Site

[signature] 5/30/17

Location Wednesday Date 5/31/17

Project / Client 60°F Clear NW 4mph

0651	Arrive on site
	– Setup Dust Traks/Viper + AIRCON asbestos Pumps Cal up
0715	STATION 1 = 15,566 l/min
0735	STATION 2 = 15,613 l/min
0745	STATION 3 = 15,335 l/min
0755	STATION 4 = 15,328 l/min
	Mid-day Calibration
1125	STATION 1 = 15,497 l/min
1135	" 2 = 12,621 / 15,562
1145	" 3 = 14,654 l/min
1155	" 4 = 13,337 l/min
	End of the day calibration
1610	STA#1 = ~~[illegible]~~ 15,546 l/min
1535	#2 = 11,334 l/min
1545	#3 = 14,545 l/min
1555	#4 = 13,311 l/min
1710	Depart Site.

NOTE: AFter rain calibrations worked well today.

[signature] 5/31/17

Location Thursday Date 6/1/17

Project / Client 58°F Winds Calm

Working on 3rd Floor Grocery Mix Bld.

0625	Arrive on-site.
0636	OSC does not require Asbestos air sampling today.
0731	FOSC George Krebs arrives on-site. He request the chance to review/comment on PolREP#4. START told him to speak w OSC.
0844	DustTRAKs setup This day
0921	Spoke to OSC about need for additional budget increase he agrees to incremental finance increase only. ok to submit to him TDD amendment #3.
1250	OSC approves Polrep# 4, and request START to push #4 to web portal
1310	OSC executes TDD Amend. #3 Scan & send to Program MGR.
1425	Remove instruments
1517	Depart site

[signature] 6/1/17

Location Tuesday Date 6/6/17

Project / Client 68°F Clear Cool

ERRS working 2nd Floor of C-mill warehouse #6

0655	Depart St. Louis, MO
0837	Arrive to Site. OSC not here.
	Deploy AIRCON2 Pumps today.
0845	Calup this day
0855	STATION #1 = 15,479 l/min
0905	" #2 = 15,452 "
0910	" #3 = 15,155 "
0915	" #4 = 15,177
	Mid Day Calibration
1135	STATION 1 = 14,862 → 15,504
1140	" 2 = 11,645 → 15,378
1145	" 3 = 14,739 → 15,146
1147	" 4 = 15,043 → 15,043
	End of the day Calibration
1555	Station 1 = 15,372 l/min
1605	Station 2 = 14,988 l/min
1610	Station 3 = 15,089 l/min
1615	Station 4 = 14,891 l/min
1635	Depart Site

[signature] 6/6/17

Location WEDNESDAY Date 6/7/17

Project / Client 58°F clear Cool NNE 4mph.
2nd Floor "C" Mill warehouse #6

0625 Arrive on-site.
Big day for DustTRAK
MAintenance Today.
All dustTRAKs will have
Filter change out This day.
0711 OSC Turner does not desire
Air Con High Volume asbestos
samples Collected today.
1150 All Filters changed in
DustTraks at This Time
1635 Depart Site

JW 6/7/17

Location Thursday Date 6/8/17

Project / Client 67°F clear
2nd Floor "C" Mill Warehouse #6

0630 Arrive on-site
0644 OSC does not require
High Volume asbestos
Sampling This day,
Just performing DustTraks
with Viper Comms.
1630 Depart Site

JW 6/8/17

78

Location Thursday Date 6/15/17

Project / Client Idot 86th

Only day onsite This week → Pioneer Asphalt

0846 Arrive onsite
OSC only requires DustTrak with Viper Comms Today
- ERRS Continues to work on Removal / 3rd "C" m

1020 - Discuss TDD Amendment #4 w/ OSC Turner.
- Wants incremental financing only.
- OSC does not want to review budget estimates
- increments should be larger due to L.O.E.'s

1140 OSC say short day for me.

1301 R.M. Lyberger Concerned That damaged floors in "C" Mill is big safety concern START will not investigate.

1247 Depart site

6/15/17

79

Location Tuesday Date ~~7/25/17~~ 7/25/17

Project / Client ERRS working on 7th Floor of Warehouse #2

0655 Depart St. Louis

0852 Arrive on-site.
- Because the site grass will be cut on 7/26/17, and OSC Turner tasked last week for 1 round of Perimeter Sampling; AIRCON 2 samples will be collected this day

AIRCON 2 Cal-up this day

0935 STATION #1 = 15.403 l/min
0945 " #2 = 15.495 " "
0950 " #3 = 15.696 " "
0955 " #4 = 15.722 " "

MID DAY Calup

1135 STATION #1 = 15.368 l/min
1140 " #1 #2 = 14.510 " "
1145 " #3 = 13.956 " "
1155 " #4 = 14.962 " "

LAST OF DAY Calibration

1605 STATION #2 = 13.246 l/min
1615 " #3 = 12.891 " "
1620 " #4 = 13.423 " "
1625 " #1 = 14.563 " "

80 Location WEDNESDAY Date 07/26/17

Project / Client Hot clear 74°F Humid

STILL ON Floor 7 of warehouse #3

0600 SAFETY Briefing
- TOPIC Electrical Safety.

0719 - Setup DustTraks only today.

0826 - Prep 7/25/17 Samples for FEDEX to Quantem LABS

1025 Drop off Samples for FedEx delivery to Quantem Labs

1210 OSC Vega does not require any START Support today

1635 Depart Site

7/26/17

81 Location Thursday Date 7/27/17

Project / Client Hot Clear Humid

Wrapping up Floor 7 of warehouse #3

0600 Arrive on site

0635 Only DustTraks today

0845 Depart site to find bumper feet for AirCon 2 battery Packs for feet That are deteriorating from Heat.

1010 Correspond w/ Jessie at USEPA Millbrook as to replacement feet That are much cheaper than from Sensidyne.

1530 Depart Site
Demob from Site

7/27/17

Location Tuesday Date 8/8/17

Project / Client Clear 68°F Low humid SSW12mph working basement of warehouse #7

Setting up HAZcat today in Dock 107

0625 Depart St. Louis.
0810 Arrive Springfield, IL
0835 OSC wants HAZcat set up along with Air Monitors & High Vol pumps in Dock 107 and Universal waste storage area of warehouse #7
Also, OSC desire 2 air mon stations outside for data to support NO respiratory protection for universal waste storage area.

0935 Station #2 15,527 l/min.
0950 STATION #6 inside Dock 107 " " 15,975 l/min
1020 STATION #7 South wall, warehouse #7 15,821 l/min

Mid day check for Air con pump

1140 STATION #2 12,267 / 15,622
1150 " # 6 15,459 / 15,459
1155 " # 7 15,598 / 15,598

Location Tuesday Date 8/8/17

Project / Client

1405 STATION #2 = 13,671 l/min
1410 Station #6 = 15,046 l/min
1415 " #7 = 13,134 l/min
All instruments removed.
1437 Depart Site

EW 8/8/17

Location Wednesday Date 8/9/17

Project / Client Cool 62°F Clear No wind

- ERRS Warehouse #7 basement
- Remove RCRA Empty drums

0651 Arrive on-site
0710 Setup DustTraks at:
Station #1 - Trailers
" #2 - outside Dock 107
#6 - Inside Dock 107
#7 - Inside Warehouse #7
0740 RM Lybarger & Self into warehouse #7 To cull-out RCRA empty Containers.
1135 Totals for RCRA empty containers are;

55-gal Steel	=	8
" " Fiber	=	6
" " Poly	=	7
5-gal pails	=	23
1-gallon	=	3
Compressed Gas	=	5

1350 - Conduct Site Security check
1542 OSC Turner Returns
1632 Depart site

[signature] 8/9/17

Location Thursday Date 8/10/17

Project / Client Cool 68°F No wind

0700 Arrive to site.
- Setout 4 DustTraks + VIPER
- OSC does not want AIRCANZ
0836 Place phone call to Quantem Labs to provide approval for TEM + PCM Testing for Samples Collected on 8/8/17. Spoke to Peyton Awbrey about This,
1015 Peyton Awbrey confirms samples have arrived to lab
1027 - OSC Turner + START enter "C" Mill Warehouse #6 to photodoc inaccessible SFOS on the Floors of 4, 5, 6, 7, 8 & 9
4th Floor
2 vertical piperuns 12' each
5th Floor
3 vert runs ≈ 12'
1 vert run ≈ 6'
6th Floor
1 vert run ≈ 12',
1 vert Run ≈ 3'

Location Cont Date 8/10/17

Project / Client Thursday

7th Floor
3 vert runs ≈ 12' each
8th Floor
2 vertical runs ≈ 12' each
9th Floor
1 horizontal run 15' of 1" Line
1 Vertical " 10' of 1" Line
1 horizontal overhead ≈ 34' 8" Line
1 vertical overhead ≈ 6' 8" Line
Note: All pipes are 2" diameter steam pipes except as noted.

1250 "C" mill inspection was safely conducted + photo-documented. This will be in the project final report.

1315 Brief Lunch today.

1422 Instruments have been removed + on charge.
Depart Site

8/10/17

Location Tuesday Date 8/15/17

Project / Client

very Hot + Humid. 92°F or more today

0632 Depart St Louis.

0810 Arrive on site.
- OSC want to discuss asbestos sample results from 8/8/17 regarding Dock 107 & warehouse. Told him that they passed.
- He indicates that START is to initiate Haz-cat work in these areas.
- No Level "C" required, except for sample unknowns which is done as Level "B"

1010 - Arrangements are made to acquire Chlor-n-oil test kits by ERRS.
- Due to extensive amounts of Haz-cat work, This log book will not be used to record Haz mat info. like Fingerprint ID + inventory

1215 Depart Site

8/15/17

88

Location Thursday Date 9/7/17

Project / Client

Hot & Humid today

0658 Arrive on-site JTB
— HAZ-cat & Bulk consolidation will wrap up today.
— START has completed an inventory of remaining wastes that require Lab Pack disposal.
1225 ERRS R.M. is satisfied w/ chemical inventory and his team efforts with Bulking/consolidation of 622 containers of mostly oils/lube oils & cooking oils.
1420 — Next week, OSC Reush will Pickup all instrument & the ATV.
— START will assemble & Box up all EPA owned Equip.
1522 Depart Site

JTB 9/7/17

89

Location Monday Date 9/11/17

Project / Client Clear/cool 62°F

0647 Depart St. Louis
0831 Arrive to site
— Pack up all Instrument WEIGHING the Ballast's per use

1 small = 3.925 lbs

1 medium = 6.90 lbs

1 large = 13.325 lbs

The above represent the weight of each size PCB Ballast

1210 Lunch
1258 Return from Lunch
1440 All instruments filters changed, cleared of data repacked. Removing Viper antenna array now.
1402 All antenna's removed
1602 Depart site

JTB 9/11/17

Location Tuesday Date 9/12/17

Project / Client Cool / cloudy 59°F

0628 Arrive on-site

0710 OSC Turner request that START BIN2:
1) Change lock on Dock 107 Door
2) Generate Inventory For Lab Pack chemicals as a few more containers have been found by ERRS

0805 START BIN2 will support and document ERRS crews in the final bulking and reconsolidation of waste oils.

1320 This appears to be a 2-day Job as the old + damaged totes and drums will be smashed or cut up

1637 Depart site

9/12/17

Location WED Date 9/13/17

Project / Client cool pleasant 65°F expected

0701 arrive on-site
- Safety Briefing → using air powered equipment line Breaking of compressed air.

0811 Bulking + consolidation continues of all waste oils. This will be the last day.

0830 Site security check is ok.

0955 ERRS crew continue to work on packing 4' light Bulbs into cord board Boxes.

1037 George Krebs arrives To return keys for dust trucks. He will be given a new set of Keys for locking Dock #107

1345 R.M. walks to go over lab pack inventory.

1410 Inventory reviewed and and accepted by R.M.

1704 Depart site

Location Tuesday Date 9/19/17

Project / Client Prepping for START Demob

clear warm 79°F

0638 Depart St. Louis

0844 Arrive on-site.

- OSC request Polrep #6 support
  - need to show demob/restructure
  - inventory of wastes
  - Turning security over to IEPA

1122 Polrep #6 is done and shared w/ OSC.

1250 OSC request That I remove all equipt. cases from The VIPER Room.
ERRS will clean the Trailer today.
Paul Ruesch will drive here on 9/21/17 to pickup all EPA instruments.

1330 Chris Redmond arrives to Tour where HAZ-mat is stored.

1350 Depart site

[signature] 9/19/17

Location Wed Date 9/20/17

Project / Client Last day onsite for START

0702 Arrive on-site

- OSC has minor comments back on Polrep #6
- Approval to upload to ~~Res~~ EPA portal.

1047 Pictures & Polrep upload is completed.

1440 All office Equipt and EPA Supplies loaded to deliver to Chemoco Site this week.

1540 OSC says ok to depart site

9/20/17 [signature]

Location _____ Date _____

Project / Client _____

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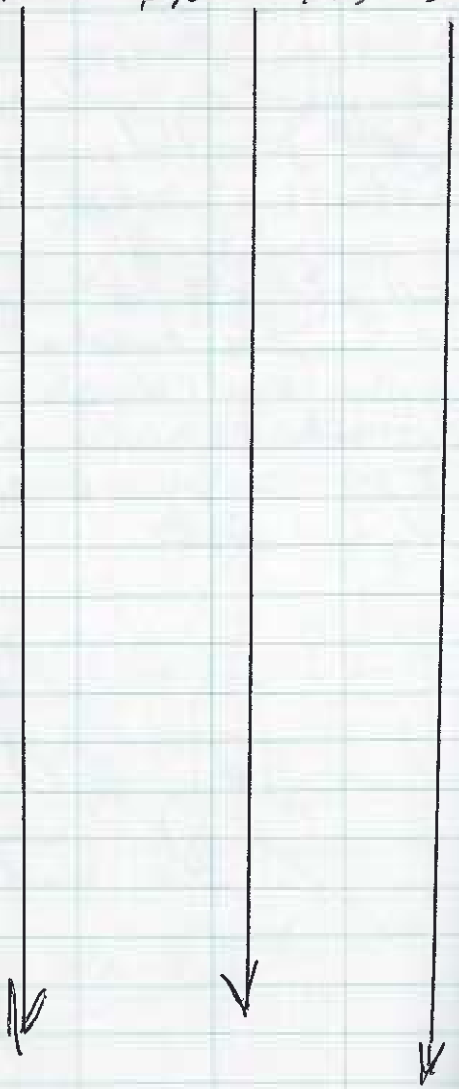


Location _____ Date _____

Project / Client _____

MEASUREMENT CONVERSIONS

U.S. to METRIC	METRIC to U.S.
inch x 2.54 = centimeter	centimeter x 0.394 = inch
foot x 0.3048 = meter	meter x 3.28 = foot
yards x 0.914 = meter	meter x 1.094 = yards
mile x 1.609 = kilometer	kilometer x 0.621 = mile
quart x 0.946 = liter	liter x 1.057 = quarts
gallon x 3.785 = liter	liter x 0.264 = gallon
ounce x 28.349 = grams	grams x 0.035 = ounce
lbs x 0.454 = kg	kg x 2.205 = lbs
mpg x 0.245 = km/ltr	km/ltr x 2.354 = mpg
mph x 1.609 = km/hr	km/hr x 0.621 = mph
°F to °C (F - 32) x .555	°C to °F (C x 1.8) + 32

ENGLISH LINEAR MEASUREMENTS

12 inches	= 1 foot
36 inches	= 1 yard
3 feet	= 1 yard
1,760 yards	= 1 mile statute
2,026.8 yards	= 1 mile nautical
5,280 feet	= 1 mile statute
6,060.4 feet	= 1 mile nautical
63,360 inches	= 1 mile statute
72,963 inches	= 1 mile nautical

MAP SCALES—ENGLISH & METRIC

SCALE	1 INCH =	1 CENTIMETER =
1:10,000	833.33 feet 254 meters	328.1 feet 100 meters
1:25,000	2,083.3 feet 635 meters	820.2 feet 250 meters
1:50,000	4,166.7 feet 1,270 meters	1,640.4 feet 500 meters
1:63,360	5,280 feet 1,609.3 meters	2,078 feet 633.6 meters
1:100,000	8,333.3 feet 2,540 meters	3,280.8 feet 1,000 meters
1:250,000	20,833 feet 6,350 meters	8,202 feet 2,500 meters
1:500,000	41,667 feet 12,700 meters	16,404 feet 5,000 meters

APPENDIX D

PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation

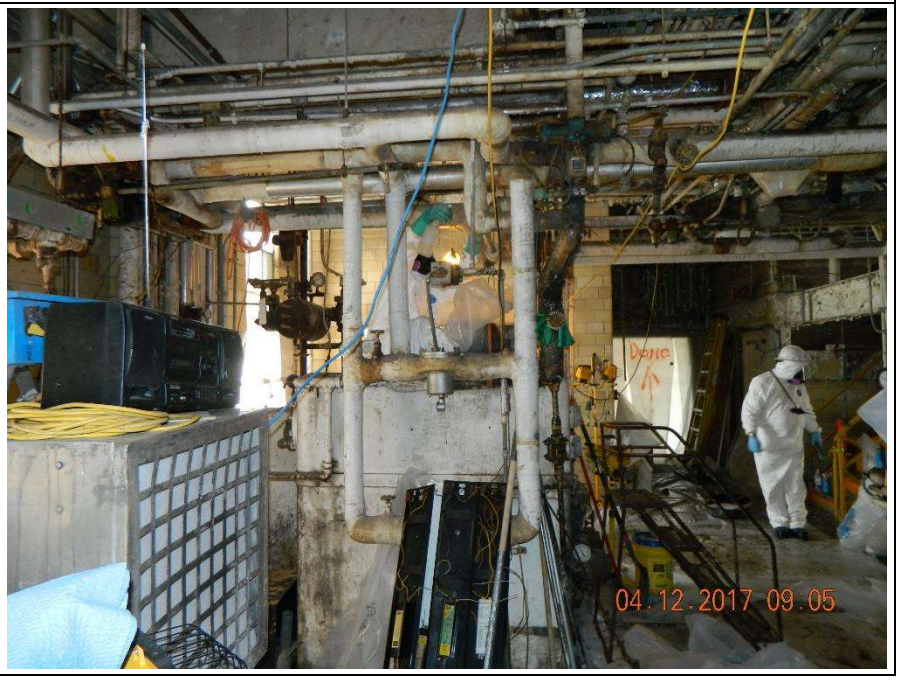
Client: U.S. EPA Region 5
Site Name: Pillsbury Mills Site
Location: 1525 E Phillips Street, Springfield, IL

Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1701-003
Date: November 2x, 2017

Photograph No. 1 **Photographer:** Tom Binz **Date:** 1/10/2017 **Description:** (East) Main gate entrance to the Pillsbury Mills Site. Series "B" and "C" Buildings shown in the background.	
Photograph No. 2 **Photographer:** Tom Binz **Date:** 2/15/2017 **Description:** (South) ERRS technician spraying water upon ACM impacted demolition debris.	

Client: U.S. EPA Region 5
Site Name: Pillsbury Mills Site
Location: 1525 E Phillips Street, Springfield, IL

Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1701-003
Date: November 2x, 2017

Photograph No. 3 **Photographer:** Tom Binz **Date:** 2/16/2017 **Description:** (Southeast). Perimeter air monitoring and sampling Station #4 location on 15th Street. Antenna for Viper wireless communications to host computer, DustTrak particulate meter encased on tripod stand with high volume pump with sample cassette.	
Photograph No. 4 **Photographer:** Ron Lybarger **Date:** 4/12/2017 **Description:** (North) ERRS technician preparing to place glove-bag around ACM pipe-wrap insulation on the 3rd floor of the "Bakery Mix" Building.	

Photographic Documentation

Client: U.S. EPA Region 5
Site Name: Pillsbury Mills Site
Location: 1525 E Phillips Street, Springfield, IL

Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1701-003
Date: November 2x, 2017

Photograph No. 5 **Photographer:** Tom Binz **Date:** 3/21/2017 **Description:** (North) Example of damaged, weathered, friable asbestos insulation prior to removal.	
Photograph No. 6 **Photographer:** Tom Binz **Date:** 4/13/2017 **Description:** (Northeast) ERRS technicians prepare to place glove-bag around ACM pipe-wrap insulations outside of the Main Office Building.	

Client: U.S. EPA Region 5
Site Name: Pillsbury Mills Site
Location: 1525 E Phillips Street, Springfield, IL

Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1701-003
Date: November 2x, 2017

Photograph No. 7 **Photographer:** Tom Binz **Date:** 6/8/2017 **Description:** (North) ERRS technicians initiate assembly of debris chute used to place/load double-bagged ACWM into roll-off-box from Grocery Mix Warehouse #3 Building.	
Photograph No. 8 **Photographer:** Tom Binz **Date:** 6/28/2017 **Description:** (West) Interim storage of fluorescent light bulbs (Universal Waste) inside Loading Dock #107.	

Photographic Documentation

Client: U.S. EPA Region 5
Site Name: Pillsbury Mills Site
Location: 1525 E Phillips Street, Springfield, IL

Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1701-003
Date: November 2x, 2017

Photograph No. 9 **Photographer:** Tom Binz **Date:** 9/13/2017 **Description:** (South) Intrinsically safe air-driven transfer pump used by ERRS technicians to bulk consolidate compatible liquid wastes after hazardous categorization identification by Tetra Tech START.	
Photograph No. 10 **Photographer:** Tom Binz **Date:** 8/10/2017 **Description:** (West) Example showing some of the inaccessible ACM pipe-wrap on the 4th Floor of the "C" Mill Warehouse #6 Building.	

Client: U.S. EPA Region 5
Site Name: Pillsbury Mills Site
Location: 1525 E Phillips Street, Springfield, IL

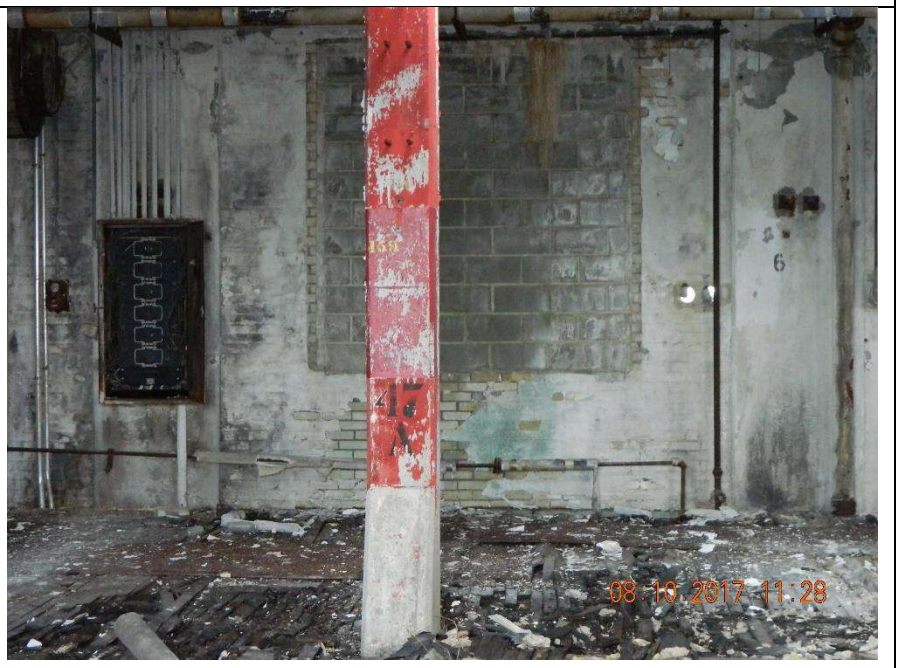
Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1701-003
Date: November 2x, 2017

Photograph No. 11 **Photographer:** Tom Binz **Date:** 8/10/2017 **Description:** (West) Example showing some of the inaccessible ACM pipe-wrap on the 5th Floor of the "C" Mill Warehouse #6 Building.	
Photograph No. 12 **Photographer:** Tom Binz **Date:** 8/10/2017 **Description:** (West) Example showing some of the inaccessible ACM pipe-wrap on the 6th Floor of the "C" Mill Warehouse #6 Building.	

Photographic Documentation

Client: U.S. EPA Region 5
Site Name: Pillsbury Mills Site
Location: 1525 E Phillips Street, Springfield, IL

Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1701-003
Date: November 2x, 2017

Photograph No. 13 **Photographer:** Tom Binz **Date:** 8/10/2017 **Description:** (West) Example showing some of the inaccessible ACM pipe-wrap on the 8th Floor of the "C" Mill Warehouse #6 Building.	
Photograph No. 14 **Photographer:** Karl Schultz **Date:** 7/16/2015 **Description:** (West) Example showing some of the inaccessible ACM pipe-wrap on the 9th Floor of the "C" Mill Warehouse #6 Building.	

APPENDIX E

ENVIRONMENTALLY PREFERRED PRACTICES

TDD #:	0001/S05-0001-1701-003
Site Name:	Pillsbury Mills - Removal
Site City, State:	Springfield, Illinois
Site Project Manager:	Tom Binz
EPA OSC:	Kevin Turner

Environmentally Preferred General Field Practices				
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N= Not Used	N/A= Not Applicable	Y = Yes Implemented	**Comments Section** Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.
Energy				
Use of Energy Efficient Equipment				
Computer Equipment (FEMP/Energy Star)			**Y**	Energy Star rate PC issued
Installation of Electric Service			**Y**	Power drop from Springfield Power and Electric
Reduce Carbon Emissions from Transportation				
Use Internet Based Meetings/Conferences		**NA**		
Maximize Carpooling		**NA**		
Use of Local Labor/Suppliers/Waste Disposal Facilities (50 mile radius)			**Y**	Local Landfill Class "D"
No idling, except for extreme weather conditions			**Y**	
Use of Alternative Fuels, if available within 10 miles	**N**			Not always economically viable due to average of 8-15 cents pricing in the St. Louis, MO area.
Properly Inflated Tires			**Y**	
Email Small Files (less than 8MB)			**Y**	
Reusable Electronic Storage Media or the Cloud			**Y**	
Water				
Use of Low Flow Sampling Pumps		**NA**		
Waste				
Use of Local Recycling Programs			**Y**	
Use of Rechargeable Batteries			**Y**	
Recycling – Other			**Y**	
Plastic Reduction			**Y**	
Reuse of Resources		**NA**		
Direct Push Boring		**NA**		
Materials				
Printing when Required				
Double-sided Printing			**Y**	
100% post-consumer recycled paper			**Y**	

Environmentally Preferred General Field Practices				
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N= Not Used	N/A= Not Applicable	Y = Yes Implemented	**Comments Section** Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.
Land & Ecosystems				
Minimize Disruption to Natural Vegetation		**NA**		
Use of Non-invasive Investigation Techniques		**NA**		
Environmentally Preferred				
Green Procurement				
Environmentally Preferred Vendors		**NA**		
Green Lodging/Hotels			**Y**	
Use of Green Laboratories		**NA**		